

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

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## Abstracts

The global Flame Detectors market size is expected to reach \$ 3477 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

In 2025, global Flame Detectors capacity is 6 million units, with production reached approximately 4.39 million units, with an average global market price of around US\$ 581 per unit. The market gross margin is mainly 30%-40%.

Flame Detectors are safety devices designed to detect the presence of fire by sensing specific radiation emitted by flames in ultraviolet (UV), infrared (IR), or visible light spectra. They provide rapid fire detection in high-risk industrial and commercial environments where smoke detectors may respond too slowly. Flame detectors are widely used in oil and gas, petrochemical, power generation, aviation, and storage facilities to ensure early fire warning and system shutdown.

Upstream includes infrared sensors, UV phototubes, photodiodes, optical filters, microprocessors, printed circuit boards, explosion-proof housings, and signal processing modules. Semiconductor manufacturers and specialized optics suppliers play a critical role in detector sensitivity and accuracy. Certification bodies providing ATEX, IECEx, FM, UL, and other approvals are also part of the ecosystem.

Midstream consists of flame detector manufacturers who integrate sensing elements, signal processing algorithms, explosion-proof enclosures, and communication interfaces into complete detection systems. Core technologies include multi-spectrum sensing, false alarm suppression algorithms, environmental compensation, and industrial communication protocols.

Downstream customers include oil & gas companies, petrochemical plants, LNG terminals, power plants, refineries, airports, hydrogen facilities, and industrial warehouses. Market demand closely follows energy investment, industrial safety regulations, and expansion of hazardous area facilities.

The global flame detector market is expected to grow steadily, driven by stricter industrial safety regulations and expanding energy infrastructure. Increasing investments in oil & gas, LNG, hydrogen energy, and petrochemical projects are supporting demand for high-performance fire detection systems.

Industrial facilities with high fire risk require rapid detection and minimal false alarms, leading to rising adoption of multi-spectrum IR3 and UV/IR combination technologies. Additionally, the expansion of hydrogen energy and battery storage facilities introduces new fire detection challenges, further boosting demand for advanced flame detection solutions.

Technological trends include improved false alarm immunity, artificial intelligence-based signal processing, enhanced environmental compensation, and integration with industrial control systems. Explosion-proof certification and compliance with international standards remain essential in hazardous environments.

Asia-Pacific and the Middle East are major growth regions due to refinery expansion, petrochemical capacity additions, and LNG infrastructure development. In mature markets such as North America and Europe, demand is driven by plant modernization and safety upgrades.

Overall, the flame detector market is transitioning toward higher sensitivity, faster response time, enhanced reliability, and intelligent system integration.

This report studies the global Flame Detectors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Flame 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 Flame Detectors that contribute to its increasing demand across many markets.

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

Global Flame Detectors total production and demand, 2021-2032, (K Units)  
Global Flame Detectors total production value, 2021-2032, (USD Million)  
Global Flame Detectors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)  
Global Flame Detectors consumption by region & country, CAGR, 2021-2032 & (K Units)  
U.S. VS China: Flame Detectors domestic production, consumption, key domestic manufacturers and share  
Global Flame Detectors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)  
Global Flame Detectors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)  
Global Flame Detectors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Flame 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 Honeywell International, MSA, Emerson Electric, Dr?ger, Bosch, Siemens, Halma, NOHMI BOSAI LTD, Teledyne, Hochiki Corporation, 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 Flame Detectors market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Flame Detectors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Flame Detectors Market, Segmentation by Type:

UV Flame Detectors

IR Flame Detectors

UV & IR Flame Detectors

Others

#### Global Flame Detectors Market, Segmentation by Function:

Explosion-Proof Type

Non-Explosion-Proof Type

#### Global Flame Detectors Market, Segmentation by Structure:

Point Type Flame Detector

Gimbal Type Flame Detector

Others

### Global Flame Detectors Market, Segmentation by Application:

Manufacturing

Oil and Gas

Mining

Buildings and Public Place

Others

### Companies Profiled:

Honeywell International

MSA

Emerson Electric

Dräger

Bosch

Siemens

Halma

NOHMI BOSAI LTD

Teledyne

Hochiki Corporation

Johnson Controls

Det-Tronics

Azbil Corporation

Forney Corporation

New Cosmos Electric

Shanghai AEGIS

Micropack

Nittan

Shanghai Anyu Intelligent Technology Co., Ltd

IHI Inspection & Instrumentation Co., Ltd.

TAKEX

ENOCH

Hanwei Electronics

Shenzhen Nuoan Intelligent

### **Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Flame Detectors Introduction
- 1.2 World Flame Detectors Supply & Forecast
  - 1.2.1 World Flame Detectors Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Flame Detectors Production (2021-2032)
  - 1.2.3 World Flame Detectors Pricing Trends (2021-2032)
- 1.3 World Flame Detectors Production by Region (Based on Production Site)
  - 1.3.1 World Flame Detectors Production Value by Region (2021-2032)
  - 1.3.2 World Flame Detectors Production by Region (2021-2032)
  - 1.3.3 World Flame Detectors Average Price by Region (2021-2032)
  - 1.3.4 North America Flame Detectors Production (2021-2032)
  - 1.3.5 Europe Flame Detectors Production (2021-2032)
  - 1.3.6 China Flame Detectors Production (2021-2032)
  - 1.3.7 Japan Flame Detectors Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Flame Detectors Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Flame Detectors Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Flame Detectors Demand (2021-2032)
- 2.2 World Flame Detectors Consumption by Region
  - 2.2.1 World Flame Detectors Consumption by Region (2021-2026)
  - 2.2.2 World Flame Detectors Consumption Forecast by Region (2027-2032)
- 2.3 United States Flame Detectors Consumption (2021-2032)
- 2.4 China Flame Detectors Consumption (2021-2032)
- 2.5 Europe Flame Detectors Consumption (2021-2032)
- 2.6 Japan Flame Detectors Consumption (2021-2032)
- 2.7 South Korea Flame Detectors Consumption (2021-2032)
- 2.8 ASEAN Flame Detectors Consumption (2021-2032)
- 2.9 India Flame Detectors Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Flame Detectors Production Value by Manufacturer (2021-2026)

- 3.2 World Flame Detectors Production by Manufacturer (2021-2026)
- 3.3 World Flame Detectors Average Price by Manufacturer (2021-2026)
- 3.4 Flame Detectors Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Flame Detectors Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Flame Detectors in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Flame Detectors in 2025
- 3.6 Flame Detectors Market: Overall Company Footprint Analysis
  - 3.6.1 Flame Detectors Market: Region Footprint
  - 3.6.2 Flame Detectors Market: Company Product Type Footprint
  - 3.6.3 Flame Detectors Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Flame Detectors Production Value Comparison
  - 4.1.1 United States VS China: Flame Detectors Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Flame Detectors Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Flame Detectors Production Comparison
  - 4.2.1 United States VS China: Flame Detectors Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Flame Detectors Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Flame Detectors Consumption Comparison
  - 4.3.1 United States VS China: Flame Detectors Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Flame Detectors Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Flame Detectors Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Flame Detectors Manufacturers, Headquarters and Production Site (States, Country)
  - 4.4.2 United States Based Manufacturers Flame Detectors Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Flame Detectors Production (2021-2026)

4.5 China Based Flame Detectors Manufacturers and Market Share

4.5.1 China Based Flame Detectors Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Flame Detectors Production Value (2021-2026)

4.5.3 China Based Manufacturers Flame Detectors Production (2021-2026)

4.6 Rest of World Based Flame Detectors Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Flame Detectors Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Flame Detectors Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Flame Detectors Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Flame Detectors Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 UV Flame Detectors

5.2.2 IR Flame Detectors

5.2.3 UV & IR Flame Detectors

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Flame Detectors Production by Type (2021-2032)

5.3.2 World Flame Detectors Production Value by Type (2021-2032)

5.3.3 World Flame Detectors Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY FUNCTION**

6.1 World Flame Detectors Market Size Overview by Function: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Function

6.2.1 Explosion-Proof Type

6.2.2 Non-Explosion-Proof Type

6.3 Market Segment by Function

6.3.1 World Flame Detectors Production by Function (2021-2032)

6.3.2 World Flame Detectors Production Value by Function (2021-2032)

6.3.3 World Flame Detectors Average Price by Function (2021-2032)

## **7 MARKET ANALYSIS BY STRUCTURE**

7.1 World Flame Detectors Market Size Overview by Structure: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Structure

7.2.1 Point Type Flame Detector

7.2.2 Gimbal Type Flame Detector

7.2.3 Others

7.3 Market Segment by Structure

7.3.1 World Flame Detectors Production by Structure (2021-2032)

7.3.2 World Flame Detectors Production Value by Structure (2021-2032)

7.3.3 World Flame Detectors Average Price by Structure (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Flame Detectors Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Manufacturing

8.2.2 Oil and Gas

8.2.3 Mining

8.2.4 Buildings and Public Place

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Flame Detectors Production by Application (2021-2032)

8.3.2 World Flame Detectors Production Value by Application (2021-2032)

8.3.3 World Flame Detectors Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Honeywell International

9.1.1 Honeywell International Details

9.1.2 Honeywell International Major Business

9.1.3 Honeywell International Flame Detectors Product and Services

9.1.4 Honeywell International Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Honeywell International Recent Developments/Updates

9.1.6 Honeywell International Competitive Strengths & Weaknesses

9.2 MSA

9.2.1 MSA Details

9.2.2 MSA Major Business

- 9.2.3 MSA Flame Detectors Product and Services
- 9.2.4 MSA Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 MSA Recent Developments/Updates
- 9.2.6 MSA Competitive Strengths & Weaknesses
- 9.3 Emerson Electric
  - 9.3.1 Emerson Electric Details
  - 9.3.2 Emerson Electric Major Business
  - 9.3.3 Emerson Electric Flame Detectors Product and Services
  - 9.3.4 Emerson Electric Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Emerson Electric Recent Developments/Updates
  - 9.3.6 Emerson Electric Competitive Strengths & Weaknesses
- 9.4 Dr?ger
  - 9.4.1 Dr?ger Details
  - 9.4.2 Dr?ger Major Business
  - 9.4.3 Dr?ger Flame Detectors Product and Services
  - 9.4.4 Dr?ger Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Dr?ger Recent Developments/Updates
  - 9.4.6 Dr?ger Competitive Strengths & Weaknesses
- 9.5 Bosch
  - 9.5.1 Bosch Details
  - 9.5.2 Bosch Major Business
  - 9.5.3 Bosch Flame Detectors Product and Services
  - 9.5.4 Bosch Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Bosch Recent Developments/Updates
  - 9.5.6 Bosch Competitive Strengths & Weaknesses
- 9.6 Siemens
  - 9.6.1 Siemens Details
  - 9.6.2 Siemens Major Business
  - 9.6.3 Siemens Flame Detectors Product and Services
  - 9.6.4 Siemens Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Siemens Recent Developments/Updates
  - 9.6.6 Siemens Competitive Strengths & Weaknesses
- 9.7 Halma
  - 9.7.1 Halma Details

- 9.7.2 Halma Major Business
- 9.7.3 Halma Flame Detectors Product and Services
- 9.7.4 Halma Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Halma Recent Developments/Updates
- 9.7.6 Halma Competitive Strengths & Weaknesses
- 9.8 NOHMI BOSAI LTD
  - 9.8.1 NOHMI BOSAI LTD Details
  - 9.8.2 NOHMI BOSAI LTD Major Business
  - 9.8.3 NOHMI BOSAI LTD Flame Detectors Product and Services
  - 9.8.4 NOHMI BOSAI LTD Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 NOHMI BOSAI LTD Recent Developments/Updates
  - 9.8.6 NOHMI BOSAI LTD Competitive Strengths & Weaknesses
- 9.9 Teledyne
  - 9.9.1 Teledyne Details
  - 9.9.2 Teledyne Major Business
  - 9.9.3 Teledyne Flame Detectors Product and Services
  - 9.9.4 Teledyne Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Teledyne Recent Developments/Updates
  - 9.9.6 Teledyne Competitive Strengths & Weaknesses
- 9.10 Hochiki Corporation
  - 9.10.1 Hochiki Corporation Details
  - 9.10.2 Hochiki Corporation Major Business
  - 9.10.3 Hochiki Corporation Flame Detectors Product and Services
  - 9.10.4 Hochiki Corporation Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Hochiki Corporation Recent Developments/Updates
  - 9.10.6 Hochiki Corporation Competitive Strengths & Weaknesses
- 9.11 Johnson Controls
  - 9.11.1 Johnson Controls Details
  - 9.11.2 Johnson Controls Major Business
  - 9.11.3 Johnson Controls Flame Detectors Product and Services
  - 9.11.4 Johnson Controls Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Johnson Controls Recent Developments/Updates
  - 9.11.6 Johnson Controls Competitive Strengths & Weaknesses
- 9.12 Det-Tronics

- 9.12.1 Det-Tronics Details
- 9.12.2 Det-Tronics Major Business
- 9.12.3 Det-Tronics Flame Detectors Product and Services
- 9.12.4 Det-Tronics Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Det-Tronics Recent Developments/Updates
- 9.12.6 Det-Tronics Competitive Strengths & Weaknesses
- 9.13 Azbil Corporation
  - 9.13.1 Azbil Corporation Details
  - 9.13.2 Azbil Corporation Major Business
  - 9.13.3 Azbil Corporation Flame Detectors Product and Services
  - 9.13.4 Azbil Corporation Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Azbil Corporation Recent Developments/Updates
  - 9.13.6 Azbil Corporation Competitive Strengths & Weaknesses
- 9.14 Forney Corporation
  - 9.14.1 Forney Corporation Details
  - 9.14.2 Forney Corporation Major Business
  - 9.14.3 Forney Corporation Flame Detectors Product and Services
  - 9.14.4 Forney Corporation Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 Forney Corporation Recent Developments/Updates
  - 9.14.6 Forney Corporation Competitive Strengths & Weaknesses
- 9.15 New Cosmos Electric
  - 9.15.1 New Cosmos Electric Details
  - 9.15.2 New Cosmos Electric Major Business
  - 9.15.3 New Cosmos Electric Flame Detectors Product and Services
  - 9.15.4 New Cosmos Electric Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 New Cosmos Electric Recent Developments/Updates
  - 9.15.6 New Cosmos Electric Competitive Strengths & Weaknesses
- 9.16 Shanghai AEGIS
  - 9.16.1 Shanghai AEGIS Details
  - 9.16.2 Shanghai AEGIS Major Business
  - 9.16.3 Shanghai AEGIS Flame Detectors Product and Services
  - 9.16.4 Shanghai AEGIS Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.16.5 Shanghai AEGIS Recent Developments/Updates
  - 9.16.6 Shanghai AEGIS Competitive Strengths & Weaknesses

## 9.17 Micropack

### 9.17.1 Micropack Details

### 9.17.2 Micropack Major Business

### 9.17.3 Micropack Flame Detectors Product and Services

### 9.17.4 Micropack Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.17.5 Micropack Recent Developments/Updates

### 9.17.6 Micropack Competitive Strengths & Weaknesses

## 9.18 Nittan

### 9.18.1 Nittan Details

### 9.18.2 Nittan Major Business

### 9.18.3 Nittan Flame Detectors Product and Services

### 9.18.4 Nittan Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.18.5 Nittan Recent Developments/Updates

### 9.18.6 Nittan Competitive Strengths & Weaknesses

## 9.19 Shanghai Anyu Intelligent Technology Co., Ltd

### 9.19.1 Shanghai Anyu Intelligent Technology Co., Ltd Details

### 9.19.2 Shanghai Anyu Intelligent Technology Co., Ltd Major Business

### 9.19.3 Shanghai Anyu Intelligent Technology Co., Ltd Flame Detectors Product and Services

### 9.19.4 Shanghai Anyu Intelligent Technology Co., Ltd Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.19.5 Shanghai Anyu Intelligent Technology Co., Ltd Recent Developments/Updates

### 9.19.6 Shanghai Anyu Intelligent Technology Co., Ltd Competitive Strengths & Weaknesses

## 9.20 IHI Inspection & Instrumentation Co., Ltd.

### 9.20.1 IHI Inspection & Instrumentation Co., Ltd. Details

### 9.20.2 IHI Inspection & Instrumentation Co., Ltd. Major Business

### 9.20.3 IHI Inspection & Instrumentation Co., Ltd. Flame Detectors Product and Services

### 9.20.4 IHI Inspection & Instrumentation Co., Ltd. Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.20.5 IHI Inspection & Instrumentation Co., Ltd. Recent Developments/Updates

### 9.20.6 IHI Inspection & Instrumentation Co., Ltd. Competitive Strengths & Weaknesses

## 9.21 TAKEX

### 9.21.1 TAKEX Details

### 9.21.2 TAKEX Major Business

### 9.21.3 TAKEX Flame Detectors Product and Services

9.21.4 TAKEX Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.21.5 TAKEX Recent Developments/Updates

9.21.6 TAKEX Competitive Strengths & Weaknesses

9.22 ENOCH

9.22.1 ENOCH Details

9.22.2 ENOCH Major Business

9.22.3 ENOCH Flame Detectors Product and Services

9.22.4 ENOCH Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.22.5 ENOCH Recent Developments/Updates

9.22.6 ENOCH Competitive Strengths & Weaknesses

9.23 Hanwei Electronics

9.23.1 Hanwei Electronics Details

9.23.2 Hanwei Electronics Major Business

9.23.3 Hanwei Electronics Flame Detectors Product and Services

9.23.4 Hanwei Electronics Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.23.5 Hanwei Electronics Recent Developments/Updates

9.23.6 Hanwei Electronics Competitive Strengths & Weaknesses

9.24 Shenzhen Nuoan Intelligent

9.24.1 Shenzhen Nuoan Intelligent Details

9.24.2 Shenzhen Nuoan Intelligent Major Business

9.24.3 Shenzhen Nuoan Intelligent Flame Detectors Product and Services

9.24.4 Shenzhen Nuoan Intelligent Flame Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.24.5 Shenzhen Nuoan Intelligent Recent Developments/Updates

9.24.6 Shenzhen Nuoan Intelligent Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 Flame Detectors Industry Chain

10.2 Flame Detectors Upstream Analysis

10.2.1 Flame Detectors Core Raw Materials

10.2.2 Main Manufacturers of Flame Detectors Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Flame Detectors Production Mode

10.6 Flame Detectors Procurement Model

## 10.7 Flame Detectors Industry Sales Model and Sales Channels

### 10.7.1 Flame Detectors Sales Model

### 10.7.2 Flame Detectors Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

### 12.1 Methodology

### 12.2 Research Process and Data Source

### 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. World Flame Detectors Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Flame Detectors Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Flame Detectors Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Flame Detectors Production Value Market Share by Region (2021-2026)
- Table 5. World Flame Detectors Production Value Market Share by Region (2027-2032)
- Table 6. World Flame Detectors Production by Region (2021-2026) & (K Units)
- Table 7. World Flame Detectors Production by Region (2027-2032) & (K Units)
- Table 8. World Flame Detectors Production Market Share by Region (2021-2026)
- Table 9. World Flame Detectors Production Market Share by Region (2027-2032)
- Table 10. World Flame Detectors Average Price by Region (2021-2026) & (USD/Unit)
- Table 11. World Flame Detectors Average Price by Region (2027-2032) & (USD/Unit)
- Table 12. Flame Detectors Major Market Trends
- Table 13. World Flame Detectors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Flame Detectors Consumption by Region (2021-2026) & (K Units)
- Table 15. World Flame Detectors Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Flame Detectors Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Flame Detectors Producers in 2025
- Table 18. World Flame Detectors Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key Flame Detectors Producers in 2025
- Table 20. World Flame Detectors Average Price by Manufacturer (2021-2026) & (USD/Unit)
- Table 21. Global Flame Detectors Company Evaluation Quadrant
- Table 22. World Flame Detectors Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Flame Detectors Production Site of Key Manufacturer
- Table 24. Flame Detectors Market: Company Product Type Footprint
- Table 25. Flame Detectors Market: Company Product Application Footprint
- Table 26. Flame Detectors Competitive Factors
- Table 27. Flame Detectors New Entrant and Capacity Expansion Plans

Table 28. Flame Detectors Mergers & Acquisitions Activity

Table 29. United States VS China Flame Detectors Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Flame Detectors Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Flame Detectors Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Flame Detectors Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Flame Detectors Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Flame Detectors Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Flame Detectors Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Flame Detectors Production Market Share (2021-2026)

Table 37. China Based Flame Detectors Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Flame Detectors Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Flame Detectors Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Flame Detectors Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Flame Detectors Production Market Share (2021-2026)

Table 42. Rest of World Based Flame Detectors Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Flame Detectors Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Flame Detectors Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Flame Detectors Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Flame Detectors Production Market Share (2021-2026)

Table 47. World Flame Detectors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Flame Detectors Production by Type (2021-2026) & (K Units)

Table 49. World Flame Detectors Production by Type (2027-2032) & (K Units)

Table 50. World Flame Detectors Production Value by Type (2021-2026) & (USD Million)

Table 51. World Flame Detectors Production Value by Type (2027-2032) & (USD Million)

Table 52. World Flame Detectors Average Price by Type (2021-2026) & (USD/Unit)

Table 53. World Flame Detectors Average Price by Type (2027-2032) & (USD/Unit)

Table 54. World Flame Detectors Production Value by Function, (USD Million), 2021 & 2025 & 2032

Table 55. World Flame Detectors Production by Function (2021-2026) & (K Units)

Table 56. World Flame Detectors Production by Function (2027-2032) & (K Units)

Table 57. World Flame Detectors Production Value by Function (2021-2026) & (USD Million)

Table 58. World Flame Detectors Production Value by Function (2027-2032) & (USD Million)

Table 59. World Flame Detectors Average Price by Function (2021-2026) & (USD/Unit)

Table 60. World Flame Detectors Average Price by Function (2027-2032) & (USD/Unit)

Table 61. World Flame Detectors Production Value by Structure, (USD Million), 2021 & 2025 & 2032

Table 62. World Flame Detectors Production by Structure (2021-2026) & (K Units)

Table 63. World Flame Detectors Production by Structure (2027-2032) & (K Units)

Table 64. World Flame Detectors Production Value by Structure (2021-2026) & (USD Million)

Table 65. World Flame Detectors Production Value by Structure (2027-2032) & (USD Million)

Table 66. World Flame Detectors Average Price by Structure (2021-2026) & (USD/Unit)

Table 67. World Flame Detectors Average Price by Structure (2027-2032) & (USD/Unit)

Table 68. World Flame Detectors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Flame Detectors Production by Application (2021-2026) & (K Units)

Table 70. World Flame Detectors Production by Application (2027-2032) & (K Units)

Table 71. World Flame Detectors Production Value by Application (2021-2026) & (USD Million)

Table 72. World Flame Detectors Production Value by Application (2027-2032) & (USD Million)

Table 73. World Flame Detectors Average Price by Application (2021-2026) & (USD/Unit)

Table 74. World Flame Detectors Average Price by Application (2027-2032) &

(USD/Unit)

Table 75. Honeywell International Basic Information, Manufacturing Base and Competitors

Table 76. Honeywell International Major Business

Table 77. Honeywell International Flame Detectors Product and Services

Table 78. Honeywell International Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Honeywell International Recent Developments/Updates

Table 80. Honeywell International Competitive Strengths & Weaknesses

Table 81. MSA Basic Information, Manufacturing Base and Competitors

Table 82. MSA Major Business

Table 83. MSA Flame Detectors Product and Services

Table 84. MSA Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. MSA Recent Developments/Updates

Table 86. MSA Competitive Strengths & Weaknesses

Table 87. Emerson Electric Basic Information, Manufacturing Base and Competitors

Table 88. Emerson Electric Major Business

Table 89. Emerson Electric Flame Detectors Product and Services

Table 90. Emerson Electric Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Emerson Electric Recent Developments/Updates

Table 92. Emerson Electric Competitive Strengths & Weaknesses

Table 93. Dräger Basic Information, Manufacturing Base and Competitors

Table 94. Dräger Major Business

Table 95. Dräger Flame Detectors Product and Services

Table 96. Dräger Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Dräger Recent Developments/Updates

Table 98. Dräger Competitive Strengths & Weaknesses

Table 99. Bosch Basic Information, Manufacturing Base and Competitors

Table 100. Bosch Major Business

Table 101. Bosch Flame Detectors Product and Services

Table 102. Bosch Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Bosch Recent Developments/Updates

Table 104. Bosch Competitive Strengths & Weaknesses

Table 105. Siemens Basic Information, Manufacturing Base and Competitors

- Table 106. Siemens Major Business
- Table 107. Siemens Flame Detectors Product and Services
- Table 108. Siemens Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Siemens Recent Developments/Updates
- Table 110. Siemens Competitive Strengths & Weaknesses
- Table 111. Halma Basic Information, Manufacturing Base and Competitors
- Table 112. Halma Major Business
- Table 113. Halma Flame Detectors Product and Services
- Table 114. Halma Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Halma Recent Developments/Updates
- Table 116. Halma Competitive Strengths & Weaknesses
- Table 117. NOHMI BOSAI LTD Basic Information, Manufacturing Base and Competitors
- Table 118. NOHMI BOSAI LTD Major Business
- Table 119. NOHMI BOSAI LTD Flame Detectors Product and Services
- Table 120. NOHMI BOSAI LTD Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. NOHMI BOSAI LTD Recent Developments/Updates
- Table 122. NOHMI BOSAI LTD Competitive Strengths & Weaknesses
- Table 123. Teledyne Basic Information, Manufacturing Base and Competitors
- Table 124. Teledyne Major Business
- Table 125. Teledyne Flame Detectors Product and Services
- Table 126. Teledyne Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Teledyne Recent Developments/Updates
- Table 128. Teledyne Competitive Strengths & Weaknesses
- Table 129. Hochiki Corporation Basic Information, Manufacturing Base and Competitors
- Table 130. Hochiki Corporation Major Business
- Table 131. Hochiki Corporation Flame Detectors Product and Services
- Table 132. Hochiki Corporation Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Hochiki Corporation Recent Developments/Updates
- Table 134. Hochiki Corporation Competitive Strengths & Weaknesses
- Table 135. Johnson Controls Basic Information, Manufacturing Base and Competitors
- Table 136. Johnson Controls Major Business
- Table 137. Johnson Controls Flame Detectors Product and Services
- Table 138. Johnson Controls Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 139. Johnson Controls Recent Developments/Updates
- Table 140. Johnson Controls Competitive Strengths & Weaknesses
- Table 141. Det-Tronics Basic Information, Manufacturing Base and Competitors
- Table 142. Det-Tronics Major Business
- Table 143. Det-Tronics Flame Detectors Product and Services
- Table 144. Det-Tronics Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Det-Tronics Recent Developments/Updates
- Table 146. Det-Tronics Competitive Strengths & Weaknesses
- Table 147. Azbil Corporation Basic Information, Manufacturing Base and Competitors
- Table 148. Azbil Corporation Major Business
- Table 149. Azbil Corporation Flame Detectors Product and Services
- Table 150. Azbil Corporation Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Azbil Corporation Recent Developments/Updates
- Table 152. Azbil Corporation Competitive Strengths & Weaknesses
- Table 153. Forney Corporation Basic Information, Manufacturing Base and Competitors
- Table 154. Forney Corporation Major Business
- Table 155. Forney Corporation Flame Detectors Product and Services
- Table 156. Forney Corporation Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Forney Corporation Recent Developments/Updates
- Table 158. Forney Corporation Competitive Strengths & Weaknesses
- Table 159. New Cosmos Electric Basic Information, Manufacturing Base and Competitors
- Table 160. New Cosmos Electric Major Business
- Table 161. New Cosmos Electric Flame Detectors Product and Services
- Table 162. New Cosmos Electric Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. New Cosmos Electric Recent Developments/Updates
- Table 164. New Cosmos Electric Competitive Strengths & Weaknesses
- Table 165. Shanghai AEGIS Basic Information, Manufacturing Base and Competitors
- Table 166. Shanghai AEGIS Major Business
- Table 167. Shanghai AEGIS Flame Detectors Product and Services
- Table 168. Shanghai AEGIS Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. Shanghai AEGIS Recent Developments/Updates
- Table 170. Shanghai AEGIS Competitive Strengths & Weaknesses

- Table 171. Micropack Basic Information, Manufacturing Base and Competitors
- Table 172. Micropack Major Business
- Table 173. Micropack Flame Detectors Product and Services
- Table 174. Micropack Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Micropack Recent Developments/Updates
- Table 176. Micropack Competitive Strengths & Weaknesses
- Table 177. Nittan Basic Information, Manufacturing Base and Competitors
- Table 178. Nittan Major Business
- Table 179. Nittan Flame Detectors Product and Services
- Table 180. Nittan Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Nittan Recent Developments/Updates
- Table 182. Nittan Competitive Strengths & Weaknesses
- Table 183. Shanghai Anyu Intelligent Technology Co., Ltd Basic Information, Manufacturing Base and Competitors
- Table 184. Shanghai Anyu Intelligent Technology Co., Ltd Major Business
- Table 185. Shanghai Anyu Intelligent Technology Co., Ltd Flame Detectors Product and Services
- Table 186. Shanghai Anyu Intelligent Technology Co., Ltd Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 187. Shanghai Anyu Intelligent Technology Co., Ltd Recent Developments/Updates
- Table 188. Shanghai Anyu Intelligent Technology Co., Ltd Competitive Strengths & Weaknesses
- Table 189. IHI Inspection & Instrumentation Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 190. IHI Inspection & Instrumentation Co., Ltd. Major Business
- Table 191. IHI Inspection & Instrumentation Co., Ltd. Flame Detectors Product and Services
- Table 192. IHI Inspection & Instrumentation Co., Ltd. Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 193. IHI Inspection & Instrumentation Co., Ltd. Recent Developments/Updates
- Table 194. IHI Inspection & Instrumentation Co., Ltd. Competitive Strengths & Weaknesses
- Table 195. TAKEX Basic Information, Manufacturing Base and Competitors
- Table 196. TAKEX Major Business

Table 197. TAKEX Flame Detectors Product and Services

Table 198. TAKEX Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. TAKEX Recent Developments/Updates

Table 200. TAKEX Competitive Strengths & Weaknesses

Table 201. ENOCH Basic Information, Manufacturing Base and Competitors

Table 202. ENOCH Major Business

Table 203. ENOCH Flame Detectors Product and Services

Table 204. ENOCH Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. ENOCH Recent Developments/Updates

Table 206. ENOCH Competitive Strengths & Weaknesses

Table 207. Hanwei Electronics Basic Information, Manufacturing Base and Competitors

Table 208. Hanwei Electronics Major Business

Table 209. Hanwei Electronics Flame Detectors Product and Services

Table 210. Hanwei Electronics Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Hanwei Electronics Recent Developments/Updates

Table 212. Hanwei Electronics Competitive Strengths & Weaknesses

Table 213. Shenzhen Nuoan Intelligent Basic Information, Manufacturing Base and Competitors

Table 214. Shenzhen Nuoan Intelligent Major Business

Table 215. Shenzhen Nuoan Intelligent Flame Detectors Product and Services

Table 216. Shenzhen Nuoan Intelligent Flame Detectors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Shenzhen Nuoan Intelligent Recent Developments/Updates

Table 218. Shenzhen Nuoan Intelligent Competitive Strengths & Weaknesses

Table 219. Global Key Players of Flame Detectors Upstream (Raw Materials)

Table 220. Global Flame Detectors Typical Customers

Table 221. Flame Detectors Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Flame Detectors Picture

Figure 2. World Flame Detectors Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Flame Detectors Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Flame Detectors Production (2021-2032) & (K Units)

Figure 5. World Flame Detectors Average Price (2021-2032) & (USD/Unit)

Figure 6. World Flame Detectors Production Value Market Share by Region (2021-2032)

Figure 7. World Flame Detectors Production Market Share by Region (2021-2032)

Figure 8. North America Flame Detectors Production (2021-2032) & (K Units)

Figure 9. Europe Flame Detectors Production (2021-2032) & (K Units)

Figure 10. China Flame Detectors Production (2021-2032) & (K Units)

Figure 11. Japan Flame Detectors Production (2021-2032) & (K Units)

Figure 12. Flame Detectors Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Flame Detectors Consumption (2021-2032) & (K Units)

Figure 15. World Flame Detectors Consumption Market Share by Region (2021-2032)

Figure 16. United States Flame Detectors Consumption (2021-2032) & (K Units)

Figure 17. China Flame Detectors Consumption (2021-2032) & (K Units)

Figure 18. Europe Flame Detectors Consumption (2021-2032) & (K Units)

Figure 19. Japan Flame Detectors Consumption (2021-2032) & (K Units)

Figure 20. South Korea Flame Detectors Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Flame Detectors Consumption (2021-2032) & (K Units)

Figure 22. India Flame Detectors Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Flame Detectors by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Flame Detectors Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Flame Detectors Markets in 2025

Figure 26. United States VS China: Flame Detectors Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Flame Detectors Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Flame Detectors Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Flame Detectors Production Market Share 2025

Figure 30. China Based Manufacturers Flame Detectors Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Flame Detectors Production Market Share 2025

Figure 32. World Flame Detectors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Flame Detectors Production Value Market Share by Type in 2025

Figure 34. UV Flame Detectors

Figure 35. IR Flame Detectors

Figure 36. UV & IR Flame Detectors

Figure 37. Others

Figure 38. World Flame Detectors Production Market Share by Type (2021-2032)

Figure 39. World Flame Detectors Production Value Market Share by Type (2021-2032)

Figure 40. World Flame Detectors Average Price by Type (2021-2032) & (USD/Unit)

Figure 41. World Flame Detectors Production Value by Function, (USD Million), 2021 & 2025 & 2032

Figure 42. World Flame Detectors Production Value Market Share by Function in 2025

Figure 43. Explosion-Proof Type

Figure 44. Non-Explosion-Proof Type

Figure 45. World Flame Detectors Production Market Share by Function (2021-2032)

Figure 46. World Flame Detectors Production Value Market Share by Function (2021-2032)

Figure 47. World Flame Detectors Average Price by Function (2021-2032) & (USD/Unit)

Figure 48. World Flame Detectors Production Value by Structure, (USD Million), 2021 & 2025 & 2032

Figure 49. World Flame Detectors Production Value Market Share by Structure in 2025

Figure 50. Point Type Flame Detector

Figure 51. Gimbal Type Flame Detector

Figure 52. Others

Figure 53. World Flame Detectors Production Market Share by Structure (2021-2032)

Figure 54. World Flame Detectors Production Value Market Share by Structure (2021-2032)

Figure 55. World Flame Detectors Average Price by Structure (2021-2032) & (USD/Unit)

Figure 56. World Flame Detectors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Flame Detectors Production Value Market Share by Application in

2025

Figure 58. Manufacturing

Figure 59. Oil and Gas

Figure 60. Mining

Figure 61. Buildings and Public Place

Figure 62. Others

Figure 63. World Flame Detectors Production Market Share by Application (2021-2032)

Figure 64. World Flame Detectors Production Value Market Share by Application (2021-2032)

Figure 65. World Flame Detectors Average Price by Application (2021-2032) & (USD/Unit)

Figure 66. Flame Detectors Industry Chain

Figure 67. Flame Detectors Procurement Model

Figure 68. Flame Detectors Sales Model

Figure 69. Flame Detectors Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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