

Global Photoionization Detector (PID) 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 Photoionization Detector (PID) market size was valued at US\$ 432 million in 2025 and is forecast to a readjusted size of US\$ 678 million by 2032 with a CAGR of 6.6% during review period.

A photoionization detector (PID) is a gas sensing device used to detect the concentration of volatile organic compounds (VOCs) and trace gases in the air. Its working principle is to use ultraviolet light to ionize gas molecules, generating ions that form a current signal. This signal is proportional to the gas concentration, thus achieving real-time, highly sensitive detection of pollutants. PIDs are widely used in environmental monitoring, industrial hygiene, petrochemical safety, hazardous gas detection, and emergency rescue, characterized by fast response, high sensitivity, and the ability to detect low concentrations of VOCs (ppm or even ppb levels). The upstream of the industry chain includes suppliers of ultraviolet lamps, electrode materials, sensor chips, electronic circuits, and sampling systems; the midstream consists of equipment manufacturers responsible for integrating detection modules, signal processing systems, calibration systems, and producing portable or fixed detection equipment; downstream applications include environmental monitoring agencies, industrial safety systems, the oil and gas industry, chemical enterprises, fire and emergency departments, and occupational health monitoring. In 2025, the global production of photoionization detectors (PIDs) was approximately 336,000 units, with an average market price of approximately US\$1,250 per unit. The gross profit margin of major companies in the industry is approximately 35%-52%. Global production capacity is projected to be approximately 448,000 units in 2025.

This report is a detailed and comprehensive analysis for global Photoionization Detector

(PID) 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 Photoionization Detector (PID) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Photoionization Detector (PID) 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 Photoionization Detector (PID) 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 Photoionization Detector (PID) 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 Photoionization Detector (PID)

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 Photoionization Detector (PID) 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, Ion Science, Dräger, MSA Safety, RKI Instruments, Crowcon, Industrial Scientific, Shanxi Tengxing Sensing

Technology Co., Ltd., Nuolan, etc.

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

Market Segmentation

Photoionization Detector (PID) 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

10.6 eV PID Sensor

11.7 eV PID Sensor

Market segment by Detection Level

ppb-Level PID Detector

ppm-Level PID Detector

Market segment by Application

Environmental Air Quality Monitoring

Indoor Air Quality Assessment

Landfill Gas Monitoring

Emergency Response Detection

Others

Major players covered

Honeywell

Ion Science

Dräger

MSA Safety

RKI Instruments

Crowcon

Industrial Scientific

Shanxi Tengxing Sensing Technology Co., Ltd.

Nuoan

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 Photoionization Detector (PID) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Photoionization Detector (PID), with price, sales quantity, revenue, and global market share of Photoionization Detector (PID) from 2021 to 2026.

Chapter 3, the Photoionization Detector (PID) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Photoionization Detector (PID) 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 Photoionization Detector (PID) 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 Photoionization Detector (PID).

Chapter 14 and 15, to describe Photoionization Detector (PID) sales channel, distributors, customers, research findings and conclusion.

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