

# Multipass Gas Cell Market, Global Outlook and Forecast 2022-2028

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## Abstracts

Multipass gas cell is a cell which allows to realize multiple passes of a laser beam through a gas. For obtaining a high sensitivity of the spectroscopic measurement, one often needs to realize a long path length of the light in the gas. In principle, one could use a correspondingly long single-pass gas cell; in order to avoid excessive beam divergence, one would need to use a laser beam with relatively large beam radius. This approach, however, is often not practical, mostly since the gas cell would become too bulky to be integrated into a compact device. Therefore, one often uses multipass gas cells, where a long path length is realized by multiple passes through a moderately long cell.

This report contains market size and forecasts of Multipass Gas Cell in global, including the following market information:

Global Multipass Gas Cell Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Multipass Gas Cell Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Multipass Gas Cell companies in 2021 (%)

The global Multipass Gas Cell market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Pfund Cell Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Multipass Gas Cell include Aerodyne Research, IRsweep, Port City Instruments, Thorlabs, HealthyPhoton, PHOTONTECK, Koin?, Photonics Technologies and Mesa Photonics, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Multipass Gas Cell manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Multipass Gas Cell Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Multipass Gas Cell Market Segment Percentages, by Type, 2021 (%)

Pfund Cell

White Cell

Herriott Cell

Circular Multipass Cell

Global Multipass Gas Cell Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Multipass Gas Cell Market Segment Percentages, by Application, 2021 (%)

Optical Detection

Trace Gas Sensing

Environmental Engineering

Industrial Application

Global Multipass Gas Cell Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Multipass Gas Cell Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

## Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Multipass Gas Cell revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Multipass Gas Cell revenues share in global market, 2021 (%)

Key companies Multipass Gas Cell sales in global market, 2017-2022 (Estimated), (K Units)

Key companies Multipass Gas Cell sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Aerodyne Research

IRsweep

Port City Instruments

Thorlabs

HealthyPhoton

PHOTONTECK

Koin?

Photonics Technologies

Mesa Photonics

Idealphotonics

Axetris

Sentinel Photonics

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