

Global Mid-Wave Infrared Filter Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Mid-Wave Infrared Filter market size will reach Million USD in 2025 and is projected to reach Million USD by 2032, with a CAGR of % (2025-2032). Notably, the China Mid-Wave Infrared Filter market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A mid-wave infrared (MWIR) filter is an optical filter designed to selectively transmit light within the mid-wave infrared spectrum, typically ranging from approximately 3 to 5 micrometers (μm) in wavelength. These filters are utilized in various applications such as thermal imaging, spectroscopy, remote sensing, and military surveillance. MWIR filters are engineered to allow specific wavelengths within the mid-infrared range to pass through while blocking unwanted wavelengths outside of this range. This selective transmission enables the detection and analysis of thermal signatures emitted by objects or materials within the MWIR spectrum, facilitating tasks such as temperature measurement, gas detection, and target identification. MWIR filters are typically constructed using materials with high transmittance in the MWIR range, such as chalcogenide glasses, sapphire, or specialized coatings optimized for infrared transmission. They play a crucial role in enhancing the performance and sensitivity of infrared imaging and sensing systems across various industries and research domains.

The major global manufacturers of Mid-Wave Infrared Filter include Umicore N.V.,

Edmund Optics Inc., Jenoptik AG, Andover Corporation, Alkor Technologies, Solaris Optics SA, Syntec Optics, Lattice Materials LLC, LightPath Technologies, Inc., Thorlabs, Inc., Asphericon GmbH, Vortex Optical Coatings Ltd, Wavelength Opto-Electronic (S) Pte Ltd, IRD Ceramics, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Mid-Wave Infrared Filter. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Mid-Wave Infrared Filter market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Mid-Wave Infrared Filter market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Mid-Wave Infrared Filter industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Mid-Wave Infrared Filter Include:

Umicore N.V.

Edmund Optics Inc.

Jenoptik AG

Andover Corporation

Alkor Technologies

Solaris Optics SA

Syntec Optics

Lattice Materials LLC

LightPath Technologies, Inc.

Thorlabs, Inc.

Asphericon GmbH

Vortex Optical Coatings Ltd

Wavelength Opto-Electronic (S) Pte Ltd

IRD Ceramics

Mid-Wave Infrared Filter Product Segment Include:

3-5 Microns

5-8 Microns

Mid-Wave Infrared Filter Product Application Include:

Gas Detection and Environmental Monitoring

Medical and Biomedical Applications

Security and Defense

Others

Chapter Scope

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