

# Global Arrayed Waveguide Grating (AWG) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Arrayed Waveguide Grating (AWG) market size was valued at USD 213 million in 2023 and is forecast to a readjusted size of USD 352.1 million by 2030 with a CAGR of 7.4% during review period.

Arrayed waveguide gratings (AWG) are commonly used as optical (de)multiplexers in wavelength division multiplexed (WDM) systems. These devices are capable of multiplexing many wavelengths into a single optical fiber, thereby increasing the transmission capacity of optical networks considerably.

The devices are based on a fundamental principle of optics that light waves of different wavelengths do not interfere linearly with each other. This means that, if each channel in an optical communication network makes use of light of a slightly different wavelength, then the light from many of these channels can be carried by a single optical fiber with negligible crosstalk between the channels. The AWGs are used to multiplex channels of several wavelengths onto a single optical fiber at the transmission end and are also used as demultiplexers to retrieve individual channels of different wavelengths at the receiving end of an optical communication network.

NTT and NeoPhotonics are the Top 2 manufacturer in the global AWG market. They took up 55% of the total revenue.

Asia-Pacific is the largest market of AWG, accounting for 45% of sales market share.

In terms of product type, Athermal AWG is the largest segment, occupied for a share of

about 60%, and in terms of application, Internet Backbone Networks has a share about 50 percent.

The Global Info Research report includes an overview of the development of the Arrayed Waveguide Grating (AWG) industry chain, the market status of Internet Backbone Networks (Thermal AWG, Athermal AWG), Enterprise Networks (Thermal AWG, Athermal AWG), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Arrayed Waveguide Grating (AWG).

Regionally, the report analyzes the Arrayed Waveguide Grating (AWG) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Arrayed Waveguide Grating (AWG) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Arrayed Waveguide Grating (AWG) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Arrayed Waveguide Grating (AWG) industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Thermal AWG, Athermal AWG).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Arrayed Waveguide Grating (AWG) market.

**Regional Analysis:** The report involves examining the Arrayed Waveguide Grating (AWG) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Arrayed Waveguide Grating (AWG) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Arrayed Waveguide Grating (AWG):

**Company Analysis:** Report covers individual Arrayed Waveguide Grating (AWG) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Arrayed Waveguide Grating (AWG). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Internet Backbone Networks, Enterprise Networks).

**Technology Analysis:** Report covers specific technologies relevant to Arrayed Waveguide Grating (AWG). It assesses the current state, advancements, and potential future developments in Arrayed Waveguide Grating (AWG) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Arrayed Waveguide Grating (AWG) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Arrayed Waveguide Grating (AWG) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

## Market segment by Type

Thermal AWG

Athermal AWG

#### Market segment by Application

Internet Backbone Networks

Enterprise Networks

Others

#### Major players covered

NTT

NeoPhotonics

Accelink

Broadex Technologies

Agilecom

Enablence

PPI

ShiJia photons

Wuhan Yilut Technology

POINTek

Shenzhen Gigalight

HYC

Flyin Optronics

DK Photonics Technology

Teosco Technologies

GEZHI Photonics

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 Arrayed Waveguide Grating (AWG) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Arrayed Waveguide Grating (AWG), with price, sales, revenue and global market share of Arrayed Waveguide Grating (AWG) from 2019 to 2024.

Chapter 3, the Arrayed Waveguide Grating (AWG) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Arrayed Waveguide Grating (AWG) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions,

from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Arrayed Waveguide Grating (AWG) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Arrayed Waveguide Grating (AWG).

Chapter 14 and 15, to describe Arrayed Waveguide Grating (AWG) sales channel, distributors, customers, research findings and conclusion.

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