

# Global Whispering Gallery Mode Microresonators Market Growth 2026-2032

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## Abstracts

The global Whispering Gallery Mode Microresonators market size is predicted to grow from US\$ 138 million in 2025 to US\$ 297 million in 2032; it is expected to grow at a CAGR of 11.6% from 2026 to 2032.

In 2025, the global Whispering Gallery Mode microresonator market produced approximately 285,000 units versus a global installed capacity of about 350,000 units annually, with average unit price USD 495 while sustaining a high average gross margin of around 44%. Whispering gallery mode microresonators are ultra-high-Q optical resonant structures in which light circulates around a curved dielectric boundary—such as a microsphere, microdisk, microring, or microtoroid—by continuous total internal reflection, producing strong field confinement, long photon lifetimes, and extremely narrow resonance linewidths that are widely used in sensing, nonlinear optics, frequency comb generation, and integrated photonics. The supply chain begins upstream with high-purity optical materials (silica glass, crystalline fluorides such as CaF<sub>2</sub> and MgF<sub>2</sub>, silicon, silicon nitride, lithium niobate) and precision substrates, followed by midstream fabrication involving photolithography, dry/wet etching, laser reflow, ion milling, crystal polishing, and wafer-level processing, along with coupling components such as tapered fibers, prism couplers, and waveguides; downstream, the resonators are integrated into optical modules or photonic integrated circuits, packaged with temperature control and alignment hardware, and finally supplied to end users in applications including optical sensing (biochemical, refractive index, gas), telecom and datacom, quantum and nonlinear photonics research, precision metrology, and emerging on-chip laser and frequency-comb systems.

United States market for Whispering Gallery Mode Microresonators is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026

through 2032.

China market for Whispering Gallery Mode Microresonators is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Whispering Gallery Mode Microresonators is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Whispering Gallery Mode Microresonators players cover OEwaves, LIGENTEC, Agile Optic, CASIX, Dausinger+Giesen, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Whispering Gallery Mode Microresonators Industry Forecast” looks at past sales and reviews total world Whispering Gallery Mode Microresonators sales in 2025, providing a comprehensive analysis by region and market sector of projected Whispering Gallery Mode Microresonators sales for 2026 through 2032. With Whispering Gallery Mode Microresonators sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Whispering Gallery Mode Microresonators industry.

This Insight Report provides a comprehensive analysis of the global Whispering Gallery Mode Microresonators landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Whispering Gallery Mode Microresonators portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Whispering Gallery Mode Microresonators market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Whispering Gallery Mode Microresonators and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Whispering Gallery Mode Microresonators.

This report presents a comprehensive overview, market shares, and growth opportunities of Whispering Gallery Mode Microresonators market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Passive Type Microresonators

Active Type Microresonators

Segmentation by Operational Wavelength:

Visible (400–700 nm)

Near-infrared (780–1,600 nm)

Mid-infrared (2–5  $\mu\text{m}$ )

Segmentation by Application:

Telecommunications

Data Centers

Semiconductors

LiDAR Systems

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

OEwaves

LIGENTEC

Agile Optic

CASIX

Dausinger+Giesen

Qlibri

Jenoptik

MICROS Optics

Meopta-optika

Coherent

Lumentum

Broadcom

Ayar Labs

Luna Innovations

Menlo Systems

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Whispering Gallery Mode Microresonators market?

What factors are driving Whispering Gallery Mode Microresonators market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Whispering Gallery Mode Microresonators market opportunities vary by end market size?

How does Whispering Gallery Mode Microresonators break out by Type, by Application?

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