

Global AR Glasses Diffraction Optical Waveguide Market Growth 2026-2032

<https://marketpublishers.com/r/G4A11FC0F7CCEN.html>

Date: July 2026

Pages: 120

Price: US\$ 3,660.00 (Single User License)

ID: G4A11FC0F7CCEN

Abstracts

The global AR Glasses Diffraction Optical Waveguide market size is predicted to grow from US\$ 120 million in 2025 to US\$ 1851 million in 2032; it is expected to grow at a CAGR of 50.1% from 2026 to 2032.

In 2025, global production of AR glasses diffraction optical waveguides reached 510,000 units, with an estimated average selling price of \$240 per unit. AR glasses diffraction optical waveguides are transparent near-eye display optical components specifically designed for AR glasses, AI+AR glasses, and smart display glasses. The working principle is as follows: image light output from a microdisplay or micro-optical engine enters a transparent glass or polymer waveguide sheet through a coupling grating. It propagates within the waveguide through total internal reflection, and then the output grating guides the virtual image to the user's eye, allowing the user to see text, icons, subtitles, navigation, translations, AI prompts, or virtual images while viewing the real environment. It is mainly used in consumer-grade AI+AR glasses, industrial-grade AR glasses, and sports/outdoor AR glasses. The upstream of the industry chain includes high-refractive-index optical glass, resin materials, nanoimprint adhesives, MicroLED/Micro-OLED microdisplays, optomechanics, and photolithography/imprinting/inspection equipment; the downstream targets AR glasses manufacturers. Gross profit margins range from approximately 30% to 55%.

United States market for AR Glasses Diffraction Optical Waveguide 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 AR Glasses Diffraction Optical Waveguide 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 AR Glasses Diffraction Optical Waveguide is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key AR Glasses Diffraction Optical Waveguide players cover Vuzix, Magic Leap, Lumus Optical, DigiLens, WaveOptics, 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 "AR Glasses Diffraction Optical Waveguide Industry Forecast" looks at past sales and reviews total world AR Glasses Diffraction Optical Waveguide sales in 2025, providing a comprehensive analysis by region and market sector of projected AR Glasses Diffraction Optical Waveguide sales for 2026 through 2032. With AR Glasses Diffraction Optical Waveguide sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AR Glasses Diffraction Optical Waveguide industry.

This Insight Report provides a comprehensive analysis of the global AR Glasses Diffraction Optical Waveguide 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 AR Glasses Diffraction Optical Waveguide portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AR Glasses Diffraction Optical Waveguide market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AR Glasses Diffraction Optical Waveguide 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 AR Glasses Diffraction Optical Waveguide.

This report presents a comprehensive overview, market shares, and growth opportunities of AR Glasses Diffraction Optical Waveguide market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Surface Relief Grating (SRG) Waveguide

Volume Holographic Grating (VHG) Waveguide (VHG/HOE)

Hybrid Diffraction Waveguide

Segmentation by Display Color:

Monochrome

Dual-color

Segmentation by Material:

Glass Waveguide

Polymer/Resin Waveguide

Silicon Carbide Waveguide

Composite Waveguide

Segmentation by Application:

Industrial-grade Glasses

Consumer-grade Glasses

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.

Vuzix

Magic Leap

Lumus Optical

DigiLens

WaveOptics

Dispelix

Goertek

Shanghai North Ocean Photonics

Zhejiang Crystal-Optech

Greatar Tech

Guangna Siwei

Moldnano

Shenzhen Optiark Semiconductor Technologies

Tripole Optoelectronics Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global AR Glasses Diffraction Optical Waveguide market?

What factors are driving AR Glasses Diffraction Optical Waveguide market growth, globally and by region?

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

How do AR Glasses Diffraction Optical Waveguide market opportunities vary by end market size?

How does AR Glasses Diffraction Optical Waveguide break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global AR Glasses Diffraction Optical Waveguide Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for AR Glasses Diffraction Optical Waveguide by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for AR Glasses Diffraction Optical Waveguide by Country/Region, 2021, 2025 & 2032

2.2 AR Glasses Diffraction Optical Waveguide Segment by Type

- 2.2.1 Surface Relief Grating (SRG) Waveguide
- 2.2.2 Volume Holographic Grating (VHG) Waveguide (VHG/HOE)
- 2.2.3 Hybrid Diffraction Waveguide
- 2.2.4 AR Glasses Diffraction Optical Waveguide Sales by Type
 - 2.2.4.1 Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global AR Glasses Diffraction Optical Waveguide Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global AR Glasses Diffraction Optical Waveguide Sale Price by Type (2021-2026)

2.3 AR Glasses Diffraction Optical Waveguide Segment by Display Color

- 2.3.1 Monochrome
- 2.3.2 Dual-color
- 2.3.3 AR Glasses Diffraction Optical Waveguide Sales by Display Color
 - 2.3.3.1 Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Display Color (2021-2026)
 - 2.3.3.2 Global AR Glasses Diffraction Optical Waveguide Revenue and Market Share

by Display Color (2021-2026)

2.3.3.3 Global AR Glasses Diffraction Optical Waveguide Sale Price by Display Color (2021-2026)

2.4 AR Glasses Diffraction Optical Waveguide Segment by Material

2.4.1 Glass Waveguide

2.4.2 Polymer/Resin Waveguide

2.4.3 Silicon Carbide Waveguide

2.4.4 Composite Waveguide

2.4.5 AR Glasses Diffraction Optical Waveguide Sales by Material

2.4.5.1 Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Material (2021-2026)

2.4.5.2 Global AR Glasses Diffraction Optical Waveguide Revenue and Market Share by Material (2021-2026)

2.4.5.3 Global AR Glasses Diffraction Optical Waveguide Sale Price by Material (2021-2026)

2.5 AR Glasses Diffraction Optical Waveguide Segment by Application

2.5.1 Industrial-grade Glasses

2.5.2 Consumer-grade Glasses

2.5.3 AR Glasses Diffraction Optical Waveguide Sales by Application

2.5.3.1 Global AR Glasses Diffraction Optical Waveguide Sale Market Share by Application (2021-2026)

2.5.3.2 Global AR Glasses Diffraction Optical Waveguide Revenue and Market Share by Application (2021-2026)

2.5.3.3 Global AR Glasses Diffraction Optical Waveguide Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global AR Glasses Diffraction Optical Waveguide Breakdown Data by Company

3.1.1 Global AR Glasses Diffraction Optical Waveguide Annual Sales by Company (2021-2026)

3.1.2 Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Company (2021-2026)

3.2 Global AR Glasses Diffraction Optical Waveguide Annual Revenue by Company (2021-2026)

3.2.1 Global AR Glasses Diffraction Optical Waveguide Revenue by Company (2021-2026)

3.2.2 Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Company (2021-2026)

3.3 Global AR Glasses Diffraction Optical Waveguide Sale Price by Company

3.4 Key Manufacturers AR Glasses Diffraction Optical Waveguide Producing Area
Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers AR Glasses Diffraction Optical Waveguide Product Location
Distribution

3.4.2 Players AR Glasses Diffraction Optical Waveguide Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AR GLASSES DIFFRACTION OPTICAL WAVEGUIDE BY GEOGRAPHIC REGION

4.1 World Historic AR Glasses Diffraction Optical Waveguide Market Size by
Geographic Region (2021-2026)

4.1.1 Global AR Glasses Diffraction Optical Waveguide Annual Sales by Geographic
Region (2021-2026)

4.1.2 Global AR Glasses Diffraction Optical Waveguide Annual Revenue by
Geographic Region (2021-2026)

4.2 World Historic AR Glasses Diffraction Optical Waveguide Market Size by
Country/Region (2021-2026)

4.2.1 Global AR Glasses Diffraction Optical Waveguide Annual Sales by
Country/Region (2021-2026)

4.2.2 Global AR Glasses Diffraction Optical Waveguide Annual Revenue by
Country/Region (2021-2026)

4.3 Americas AR Glasses Diffraction Optical Waveguide Sales Growth

4.4 APAC AR Glasses Diffraction Optical Waveguide Sales Growth

4.5 Europe AR Glasses Diffraction Optical Waveguide Sales Growth

4.6 Middle East & Africa AR Glasses Diffraction Optical Waveguide Sales Growth

5 AMERICAS

5.1 Americas AR Glasses Diffraction Optical Waveguide Sales by Country

5.1.1 Americas AR Glasses Diffraction Optical Waveguide Sales by Country
(2021-2026)

5.1.2 Americas AR Glasses Diffraction Optical Waveguide Revenue by Country
(2021-2026)

5.2 Americas AR Glasses Diffraction Optical Waveguide Sales by Type (2021-2026)

5.3 Americas AR Glasses Diffraction Optical Waveguide Sales by Application
(2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC AR Glasses Diffraction Optical Waveguide Sales by Region

6.1.1 APAC AR Glasses Diffraction Optical Waveguide Sales by Region (2021-2026)

6.1.2 APAC AR Glasses Diffraction Optical Waveguide Revenue by Region
(2021-2026)

6.2 APAC AR Glasses Diffraction Optical Waveguide Sales by Type (2021-2026)

6.3 APAC AR Glasses Diffraction Optical Waveguide Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe AR Glasses Diffraction Optical Waveguide by Country

7.1.1 Europe AR Glasses Diffraction Optical Waveguide Sales by Country (2021-2026)

7.1.2 Europe AR Glasses Diffraction Optical Waveguide Revenue by Country
(2021-2026)

7.2 Europe AR Glasses Diffraction Optical Waveguide Sales by Type (2021-2026)

7.3 Europe AR Glasses Diffraction Optical Waveguide Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa AR Glasses Diffraction Optical Waveguide by Country

8.1.1 Middle East & Africa AR Glasses Diffraction Optical Waveguide Sales by Country (2021-2026)

8.1.2 Middle East & Africa AR Glasses Diffraction Optical Waveguide Revenue by Country (2021-2026)

8.2 Middle East & Africa AR Glasses Diffraction Optical Waveguide Sales by Type (2021-2026)

8.3 Middle East & Africa AR Glasses Diffraction Optical Waveguide Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of AR Glasses Diffraction Optical Waveguide

10.3 Manufacturing Process Analysis of AR Glasses Diffraction Optical Waveguide

10.4 Industry Chain Structure of AR Glasses Diffraction Optical Waveguide

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 AR Glasses Diffraction Optical Waveguide Distributors

11.3 AR Glasses Diffraction Optical Waveguide Customer

12 WORLD FORECAST REVIEW FOR AR GLASSES DIFFRACTION OPTICAL

WAVEGUIDE BY GEOGRAPHIC REGION

12.1 Global AR Glasses Diffraction Optical Waveguide Market Size Forecast by Region

12.1.1 Global AR Glasses Diffraction Optical Waveguide Forecast by Region (2027-2032)

12.1.2 Global AR Glasses Diffraction Optical Waveguide Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global AR Glasses Diffraction Optical Waveguide Forecast by Type (2027-2032)

12.7 Global AR Glasses Diffraction Optical Waveguide Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Vuzix

13.1.1 Vuzix Company Information

13.1.2 Vuzix AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

13.1.3 Vuzix AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Vuzix Main Business Overview

13.1.5 Vuzix Latest Developments

13.2 Magic Leap

13.2.1 Magic Leap Company Information

13.2.2 Magic Leap AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

13.2.3 Magic Leap AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Magic Leap Main Business Overview

13.2.5 Magic Leap Latest Developments

13.3 Lumus Optical

13.3.1 Lumus Optical Company Information

13.3.2 Lumus Optical AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

13.3.3 Lumus Optical AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.3.4 Lumus Optical Main Business Overview
- 13.3.5 Lumus Optical Latest Developments
- 13.4 DigiLens
 - 13.4.1 DigiLens Company Information
 - 13.4.2 DigiLens AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications
 - 13.4.3 DigiLens AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 DigiLens Main Business Overview
 - 13.4.5 DigiLens Latest Developments
- 13.5 WaveOptics
 - 13.5.1 WaveOptics Company Information
 - 13.5.2 WaveOptics AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications
 - 13.5.3 WaveOptics AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 WaveOptics Main Business Overview
 - 13.5.5 WaveOptics Latest Developments
- 13.6 Dispelix
 - 13.6.1 Dispelix Company Information
 - 13.6.2 Dispelix AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications
 - 13.6.3 Dispelix AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Dispelix Main Business Overview
 - 13.6.5 Dispelix Latest Developments
- 13.7 Goertek
 - 13.7.1 Goertek Company Information
 - 13.7.2 Goertek AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications
 - 13.7.3 Goertek AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Goertek Main Business Overview
 - 13.7.5 Goertek Latest Developments
- 13.8 Shanghai North Ocean Photonics
 - 13.8.1 Shanghai North Ocean Photonics Company Information
 - 13.8.2 Shanghai North Ocean Photonics AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications
 - 13.8.3 Shanghai North Ocean Photonics AR Glasses Diffraction Optical Waveguide

Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Shanghai North Ocean Photonics Main Business Overview

13.8.5 Shanghai North Ocean Photonics Latest Developments

13.9 Zhejiang Crystal-Optech

13.9.1 Zhejiang Crystal-Optech Company Information

13.9.2 Zhejiang Crystal-Optech AR Glasses Diffraction Optical Waveguide Product

Portfolios and Specifications

13.9.3 Zhejiang Crystal-Optech AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Zhejiang Crystal-Optech Main Business Overview

13.9.5 Zhejiang Crystal-Optech Latest Developments

13.10 Greater Tech

13.10.1 Greater Tech Company Information

13.10.2 Greater Tech AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

13.10.3 Greater Tech AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Greater Tech Main Business Overview

13.10.5 Greater Tech Latest Developments

13.11 Guangna Siwei

13.11.1 Guangna Siwei Company Information

13.11.2 Guangna Siwei AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

13.11.3 Guangna Siwei AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Guangna Siwei Main Business Overview

13.11.5 Guangna Siwei Latest Developments

13.12 Moldnano

13.12.1 Moldnano Company Information

13.12.2 Moldnano AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

13.12.3 Moldnano AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Moldnano Main Business Overview

13.12.5 Moldnano Latest Developments

13.13 Shenzhen Optiark Semiconductor Technologies

13.13.1 Shenzhen Optiark Semiconductor Technologies Company Information

13.13.2 Shenzhen Optiark Semiconductor Technologies AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

13.13.3 Shenzhen Optiark Semiconductor Technologies AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Shenzhen Optiark Semiconductor Technologies Main Business Overview

13.13.5 Shenzhen Optiark Semiconductor Technologies Latest Developments

13.14 Tripole Optoelectronics Technology

13.14.1 Tripole Optoelectronics Technology Company Information

13.14.2 Tripole Optoelectronics Technology AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

13.14.3 Tripole Optoelectronics Technology AR Glasses Diffraction Optical Waveguide Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Tripole Optoelectronics Technology Main Business Overview

13.14.5 Tripole Optoelectronics Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. AR Glasses Diffraction Optical Waveguide Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. AR Glasses Diffraction Optical Waveguide Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Surface Relief Grating (SRG) Waveguide

Table 4. Major Players of Volume Holographic Grating (VHG) Waveguide (VHG/HOE)

Table 5. Major Players of Hybrid Diffraction Waveguide

Table 6. Global AR Glasses Diffraction Optical Waveguide Sales by Type (2021-2026) & (K Units)

Table 7. Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Type (2021-2026)

Table 8. Global AR Glasses Diffraction Optical Waveguide Revenue by Type (2021-2026) & (\$ million)

Table 9. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Type (2021-2026)

Table 10. Global AR Glasses Diffraction Optical Waveguide Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Monochrome

Table 12. Major Players of Dual-color

Table 13. Global AR Glasses Diffraction Optical Waveguide Sales by Display Color (2021-2026) & (K Units)

Table 14. Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Display Color (2021-2026)

Table 15. Global AR Glasses Diffraction Optical Waveguide Revenue by Display Color (2021-2026) & (\$ million)

Table 16. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Display Color (2021-2026)

Table 17. Global AR Glasses Diffraction Optical Waveguide Sale Price by Display Color (2021-2026) & (US\$/Unit)

Table 18. Major Players of Glass Waveguide

Table 19. Major Players of Polymer/Resin Waveguide

Table 20. Major Players of Silicon Carbide Waveguide

Table 21. Major Players of Composite Waveguide

Table 22. Global AR Glasses Diffraction Optical Waveguide Sales by Material (2021-2026) & (K Units)

Table 23. Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Material (2021-2026)

Table 24. Global AR Glasses Diffraction Optical Waveguide Revenue by Material (2021-2026) & (\$ million)

Table 25. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Material (2021-2026)

Table 26. Global AR Glasses Diffraction Optical Waveguide Sale Price by Material (2021-2026) & (US\$/Unit)

Table 27. Global AR Glasses Diffraction Optical Waveguide Sale by Application (2021-2026) & (K Units)

Table 28. Global AR Glasses Diffraction Optical Waveguide Sale Market Share by Application (2021-2026)

Table 29. Global AR Glasses Diffraction Optical Waveguide Revenue by Application (2021-2026) & (\$ million)

Table 30. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Application (2021-2026)

Table 31. Global AR Glasses Diffraction Optical Waveguide Sale Price by Application (2021-2026) & (US\$/Unit)

Table 32. Global AR Glasses Diffraction Optical Waveguide Sales by Company (2021-2026) & (K Units)

Table 33. Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Company (2021-2026)

Table 34. Global AR Glasses Diffraction Optical Waveguide Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Company (2021-2026)

Table 36. Global AR Glasses Diffraction Optical Waveguide Sale Price by Company (2021-2026) & (US\$/Unit)

Table 37. Key Manufacturers AR Glasses Diffraction Optical Waveguide Producing Area Distribution and Sales Area

Table 38. Players AR Glasses Diffraction Optical Waveguide Products Offered

Table 39. AR Glasses Diffraction Optical Waveguide Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global AR Glasses Diffraction Optical Waveguide Sales by Geographic Region (2021-2026) & (K Units)

Table 43. Global AR Glasses Diffraction Optical Waveguide Sales Market Share Geographic Region (2021-2026)

Table 44. Global AR Glasses Diffraction Optical Waveguide Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global AR Glasses Diffraction Optical Waveguide Sales by Country/Region (2021-2026) & (K Units)

Table 47. Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Country/Region (2021-2026)

Table 48. Global AR Glasses Diffraction Optical Waveguide Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas AR Glasses Diffraction Optical Waveguide Sales by Country (2021-2026) & (K Units)

Table 51. Americas AR Glasses Diffraction Optical Waveguide Sales Market Share by Country (2021-2026)

Table 52. Americas AR Glasses Diffraction Optical Waveguide Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas AR Glasses Diffraction Optical Waveguide Sales by Type (2021-2026) & (K Units)

Table 54. Americas AR Glasses Diffraction Optical Waveguide Sales by Application (2021-2026) & (K Units)

Table 55. APAC AR Glasses Diffraction Optical Waveguide Sales by Region (2021-2026) & (K Units)

Table 56. APAC AR Glasses Diffraction Optical Waveguide Sales Market Share by Region (2021-2026)

Table 57. APAC AR Glasses Diffraction Optical Waveguide Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC AR Glasses Diffraction Optical Waveguide Sales by Type (2021-2026) & (K Units)

Table 59. APAC AR Glasses Diffraction Optical Waveguide Sales by Application (2021-2026) & (K Units)

Table 60. Europe AR Glasses Diffraction Optical Waveguide Sales by Country (2021-2026) & (K Units)

Table 61. Europe AR Glasses Diffraction Optical Waveguide Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe AR Glasses Diffraction Optical Waveguide Sales by Type (2021-2026) & (K Units)

Table 63. Europe AR Glasses Diffraction Optical Waveguide Sales by Application

(2021-2026) & (K Units)

Table 64. Middle East & Africa AR Glasses Diffraction Optical Waveguide Sales by Country (2021-2026) & (K Units)

Table 65. Middle East & Africa AR Glasses Diffraction Optical Waveguide Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa AR Glasses Diffraction Optical Waveguide Sales by Type (2021-2026) & (K Units)

Table 67. Middle East & Africa AR Glasses Diffraction Optical Waveguide Sales by Application (2021-2026) & (K Units)

Table 68. Key Market Drivers & Growth Opportunities of AR Glasses Diffraction Optical Waveguide

Table 69. Key Market Challenges & Risks of AR Glasses Diffraction Optical Waveguide

Table 70. Key Industry Trends of AR Glasses Diffraction Optical Waveguide

Table 71. AR Glasses Diffraction Optical Waveguide Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. AR Glasses Diffraction Optical Waveguide Distributors List

Table 74. AR Glasses Diffraction Optical Waveguide Customer List

Table 75. Global AR Glasses Diffraction Optical Waveguide Sales Forecast by Region (2027-2032) & (K Units)

Table 76. Global AR Glasses Diffraction Optical Waveguide Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas AR Glasses Diffraction Optical Waveguide Sales Forecast by Country (2027-2032) & (K Units)

Table 78. Americas AR Glasses Diffraction Optical Waveguide Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC AR Glasses Diffraction Optical Waveguide Sales Forecast by Region (2027-2032) & (K Units)

Table 80. APAC AR Glasses Diffraction Optical Waveguide Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe AR Glasses Diffraction Optical Waveguide Sales Forecast by Country (2027-2032) & (K Units)

Table 82. Europe AR Glasses Diffraction Optical Waveguide Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa AR Glasses Diffraction Optical Waveguide Sales Forecast by Country (2027-2032) & (K Units)

Table 84. Middle East & Africa AR Glasses Diffraction Optical Waveguide Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global AR Glasses Diffraction Optical Waveguide Sales Forecast by Type (2027-2032) & (K Units)

Table 86. Global AR Glasses Diffraction Optical Waveguide Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 87. Global AR Glasses Diffraction Optical Waveguide Sales Forecast by Application (2027-2032) & (K Units)

Table 88. Global AR Glasses Diffraction Optical Waveguide Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. Vuzix Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 90. Vuzix AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 91. Vuzix AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. Vuzix Main Business

Table 93. Vuzix Latest Developments

Table 94. Magic Leap Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 95. Magic Leap AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 96. Magic Leap AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Magic Leap Main Business

Table 98. Magic Leap Latest Developments

Table 99. Lumus Optical Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 100. Lumus Optical AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 101. Lumus Optical AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Lumus Optical Main Business

Table 103. Lumus Optical Latest Developments

Table 104. DigiLens Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 105. DigiLens AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 106. DigiLens AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. DigiLens Main Business

Table 108. DigiLens Latest Developments

Table 109. WaveOptics Basic Information, AR Glasses Diffraction Optical Waveguide

Manufacturing Base, Sales Area and Its Competitors

Table 110. WaveOptics AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 111. WaveOptics AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. WaveOptics Main Business

Table 113. WaveOptics Latest Developments

Table 114. Dispelix Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 115. Dispelix AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 116. Dispelix AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. Dispelix Main Business

Table 118. Dispelix Latest Developments

Table 119. Goertek Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 120. Goertek AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 121. Goertek AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Goertek Main Business

Table 123. Goertek Latest Developments

Table 124. Shanghai North Ocean Photonics Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 125. Shanghai North Ocean Photonics AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 126. Shanghai North Ocean Photonics AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Shanghai North Ocean Photonics Main Business

Table 128. Shanghai North Ocean Photonics Latest Developments

Table 129. Zhejiang Crystal-Optech Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 130. Zhejiang Crystal-Optech AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 131. Zhejiang Crystal-Optech AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Zhejiang Crystal-Optech Main Business

Table 133. Zhejiang Crystal-Optech Latest Developments

Table 134. Greaterar Tech Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 135. Greaterar Tech AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 136. Greaterar Tech AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. Greaterar Tech Main Business

Table 138. Greaterar Tech Latest Developments

Table 139. Guangna Siwei Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 140. Guangna Siwei AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 141. Guangna Siwei AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 142. Guangna Siwei Main Business

Table 143. Guangna Siwei Latest Developments

Table 144. Moldnano Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 145. Moldnano AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 146. Moldnano AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 147. Moldnano Main Business

Table 148. Moldnano Latest Developments

Table 149. Shenzhen Optiark Semiconductor Technologies Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 150. Shenzhen Optiark Semiconductor Technologies AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 151. Shenzhen Optiark Semiconductor Technologies AR Glasses Diffraction Optical Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 152. Shenzhen Optiark Semiconductor Technologies Main Business

Table 153. Shenzhen Optiark Semiconductor Technologies Latest Developments

Table 154. Tripole Optoelectronics Technology Basic Information, AR Glasses Diffraction Optical Waveguide Manufacturing Base, Sales Area and Its Competitors

Table 155. Tripole Optoelectronics Technology AR Glasses Diffraction Optical Waveguide Product Portfolios and Specifications

Table 156. Tripole Optoelectronics Technology AR Glasses Diffraction Optical

Waveguide Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin
(2021-2026)

Table 157. Tripole Optoelectronics Technology Main Business

Table 158. Tripole Optoelectronics Technology Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of AR Glasses Diffraction Optical Waveguide

Figure 2. AR Glasses Diffraction Optical Waveguide Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global AR Glasses Diffraction Optical Waveguide Sales Growth Rate 2021-2032 (K Units)

Figure 7. Global AR Glasses Diffraction Optical Waveguide Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. AR Glasses Diffraction Optical Waveguide Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. AR Glasses Diffraction Optical Waveguide Sales Market Share by Country/Region (2025)

Figure 10. AR Glasses Diffraction Optical Waveguide Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Surface Relief Grating (SRG) Waveguide

Figure 12. Product Picture of Volume Holographic Grating (VHG) Waveguide (VHG/HOE)

Figure 13. Product Picture of Hybrid Diffraction Waveguide

Figure 14. Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Type in 2026

Figure 15. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Type (2021-2026)

Figure 16. Product Picture of Monochrome

Figure 17. Product Picture of Dual-color

Figure 18. Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Display Color in 2026

Figure 19. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Display Color (2021-2026)

Figure 20. Product Picture of Glass Waveguide

Figure 21. Product Picture of Polymer/Resin Waveguide

Figure 22. Product Picture of Silicon Carbide Waveguide

Figure 23. Product Picture of Composite Waveguide

Figure 24. Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Material in 2026

Figure 25. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Material (2021-2026)

Figure 26. AR Glasses Diffraction Optical Waveguide Consumed in Industrial-grade Glasses

Figure 27. Global AR Glasses Diffraction Optical Waveguide Market: Industrial-grade Glasses (2021-2026) & (K Units)

Figure 28. AR Glasses Diffraction Optical Waveguide Consumed in Consumer-grade Glasses

Figure 29. Global AR Glasses Diffraction Optical Waveguide Market: Consumer-grade Glasses (2021-2026) & (K Units)

Figure 30. Global AR Glasses Diffraction Optical Waveguide Sale Market Share by Application (2025)

Figure 31. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Application in 2025

Figure 32. AR Glasses Diffraction Optical Waveguide Sales by Company in 2025 (K Units)

Figure 33. Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Company in 2025

Figure 34. AR Glasses Diffraction Optical Waveguide Revenue by Company in 2025 (\$ millions)

Figure 35. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Company in 2025

Figure 36. Global AR Glasses Diffraction Optical Waveguide Sales Market Share by Geographic Region (2021-2026)

Figure 37. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share by Geographic Region in 2025

Figure 38. Americas AR Glasses Diffraction Optical Waveguide Sales 2021-2026 (K Units)

Figure 39. Americas AR Glasses Diffraction Optical Waveguide Revenue 2021-2026 (\$ millions)

Figure 40. APAC AR Glasses Diffraction Optical Waveguide Sales 2021-2026 (K Units)

Figure 41. APAC AR Glasses Diffraction Optical Waveguide Revenue 2021-2026 (\$ millions)

Figure 42. Europe AR Glasses Diffraction Optical Waveguide Sales 2021-2026 (K Units)

Figure 43. Europe AR Glasses Diffraction Optical Waveguide Revenue 2021-2026 (\$ millions)

Figure 44. Middle East & Africa AR Glasses Diffraction Optical Waveguide Sales 2021-2026 (K Units)

Figure 45. Middle East & Africa AR Glasses Diffraction Optical Waveguide Revenue 2021-2026 (\$ millions)

Figure 46. Americas AR Glasses Diffraction Optical Waveguide Sales Market Share by Country in 2025

Figure 47. Americas AR Glasses Diffraction Optical Waveguide Revenue Market Share by Country (2021-2026)

Figure 48. Americas AR Glasses Diffraction Optical Waveguide Sales Market Share by Type (2021-2026)

Figure 49. Americas AR Glasses Diffraction Optical Waveguide Sales Market Share by Application (2021-2026)

Figure 50. United States AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 51. Canada AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 52. Mexico AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 53. Brazil AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 54. APAC AR Glasses Diffraction Optical Waveguide Sales Market Share by Region in 2025

Figure 55. APAC AR Glasses Diffraction Optical Waveguide Revenue Market Share by Region (2021-2026)

Figure 56. APAC AR Glasses Diffraction Optical Waveguide Sales Market Share by Type (2021-2026)

Figure 57. APAC AR Glasses Diffraction Optical Waveguide Sales Market Share by Application (2021-2026)

Figure 58. China AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 59. Japan AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 60. South Korea AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 61. Southeast Asia AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 62. India AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 63. Australia AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 64. China Taiwan AR Glasses Diffraction Optical Waveguide Revenue Growth

2021-2026 (\$ millions)

Figure 65. Europe AR Glasses Diffraction Optical Waveguide Sales Market Share by Country in 2025

Figure 66. Europe AR Glasses Diffraction Optical Waveguide Revenue Market Share by Country (2021-2026)

Figure 67. Europe AR Glasses Diffraction Optical Waveguide Sales Market Share by Type (2021-2026)

Figure 68. Europe AR Glasses Diffraction Optical Waveguide Sales Market Share by Application (2021-2026)

Figure 69. Germany AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 70. France AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 71. UK AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 72. Italy AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 73. Russia AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 74. Middle East & Africa AR Glasses Diffraction Optical Waveguide Sales Market Share by Country (2021-2026)

Figure 75. Middle East & Africa AR Glasses Diffraction Optical Waveguide Sales Market Share by Type (2021-2026)

Figure 76. Middle East & Africa AR Glasses Diffraction Optical Waveguide Sales Market Share by Application (2021-2026)

Figure 77. Egypt AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 78. South Africa AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 79. Israel AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 80. Turkey AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 81. GCC Countries AR Glasses Diffraction Optical Waveguide Revenue Growth 2021-2026 (\$ millions)

Figure 82. Manufacturing Cost Structure Analysis of AR Glasses Diffraction Optical Waveguide in 2026

Figure 83. Manufacturing Process Analysis of AR Glasses Diffraction Optical Waveguide

Figure 84. Industry Chain Structure of AR Glasses Diffraction Optical Waveguide

Figure 85. Channels of Distribution

Figure 86. Global AR Glasses Diffraction Optical Waveguide Sales Market Forecast by Region (2027-2032)

Figure 87. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share Forecast by Region (2027-2032)

Figure 88. Global AR Glasses Diffraction Optical Waveguide Sales Market Share Forecast by Type (2027-2032)

Figure 89. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share Forecast by Type (2027-2032)

Figure 90. Global AR Glasses Diffraction Optical Waveguide Sales Market Share Forecast by Application (2027-2032)

Figure 91. Global AR Glasses Diffraction Optical Waveguide Revenue Market Share Forecast by Application (2027-2032)

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