

Global AR Glasses Diffraction Optical Waveguide Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G2BECD5F18E0EN.html>

Date: June 2026

Pages: 117

Price: US\$ 4,480.00 (Single User License)

ID: G2BECD5F18E0EN

Abstracts

The global AR Glasses Diffraction Optical Waveguide market size is expected to reach \$ 1729 million by 2032, rising at a market growth of 47.2% CAGR during the forecast period (2026-2032).

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%.

This report studies the global AR Glasses Diffraction Optical Waveguide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AR Glasses Diffraction Optical Waveguide and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores

demand trends and competition, as well as details the characteristics of AR Glasses Diffraction Optical Waveguide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AR Glasses Diffraction Optical Waveguide total production and demand, 2021-2032, (K Units)

Global AR Glasses Diffraction Optical Waveguide total production value, 2021-2032, (USD Million)

Global AR Glasses Diffraction Optical Waveguide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AR Glasses Diffraction Optical Waveguide consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AR Glasses Diffraction Optical Waveguide domestic production, consumption, key domestic manufacturers and share

Global AR Glasses Diffraction Optical Waveguide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AR Glasses Diffraction Optical Waveguide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AR Glasses Diffraction Optical Waveguide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AR Glasses Diffraction Optical Waveguide market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Vuzix, Magic Leap, Lumus Optical, DigiLens, WaveOptics, Dispelix, Goertek, Shanghai North Ocean Photonics, Zhejiang Crystal-Optech, Greatar Tech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AR Glasses Diffraction Optical Waveguide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AR Glasses Diffraction Optical Waveguide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AR Glasses Diffraction Optical Waveguide Market, Segmentation by Type:

Surface Relief Grating (SRG) Waveguide

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

Hybrid Diffraction Waveguide

Global AR Glasses Diffraction Optical Waveguide Market, Segmentation by Display Color:

Monochrome

Dual-color

Global AR Glasses Diffraction Optical Waveguide Market, Segmentation by Material:

Glass Waveguide

Polymer/Resin Waveguide

Silicon Carbide Waveguide

Composite Waveguide

Global AR Glasses Diffraction Optical Waveguide Market, Segmentation by Application:

Industrial-grade Glasses

Consumer-grade Glasses

Companies Profiled:

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 Answered:

1. How big is the global AR Glasses Diffraction Optical Waveguide market?
2. What is the demand of the global AR Glasses Diffraction Optical Waveguide market?
3. What is the year over year growth of the global AR Glasses Diffraction Optical Waveguide market?
4. What is the production and production value of the global AR Glasses Diffraction Optical Waveguide market?
5. Who are the key producers in the global AR Glasses Diffraction Optical Waveguide market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 AR Glasses Diffraction Optical Waveguide Introduction
- 1.2 World AR Glasses Diffraction Optical Waveguide Supply & Forecast
 - 1.2.1 World AR Glasses Diffraction Optical Waveguide Production Value (2021 & 2025 & 2032)
 - 1.2.2 World AR Glasses Diffraction Optical Waveguide Production (2021-2032)
 - 1.2.3 World AR Glasses Diffraction Optical Waveguide Pricing Trends (2021-2032)
- 1.3 World AR Glasses Diffraction Optical Waveguide Production by Region (Based on Production Site)
 - 1.3.1 World AR Glasses Diffraction Optical Waveguide Production Value by Region (2021-2032)
 - 1.3.2 World AR Glasses Diffraction Optical Waveguide Production by Region (2021-2032)
 - 1.3.3 World AR Glasses Diffraction Optical Waveguide Average Price by Region (2021-2032)
 - 1.3.4 North America AR Glasses Diffraction Optical Waveguide Production (2021-2032)
 - 1.3.5 Europe AR Glasses Diffraction Optical Waveguide Production (2021-2032)
 - 1.3.6 China AR Glasses Diffraction Optical Waveguide Production (2021-2032)
 - 1.3.7 Israel AR Glasses Diffraction Optical Waveguide Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 AR Glasses Diffraction Optical Waveguide Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 AR Glasses Diffraction Optical Waveguide Major Market Trends

2 DEMAND SUMMARY

- 2.1 World AR Glasses Diffraction Optical Waveguide Demand (2021-2032)
- 2.2 World AR Glasses Diffraction Optical Waveguide Consumption by Region
 - 2.2.1 World AR Glasses Diffraction Optical Waveguide Consumption by Region (2021-2026)
 - 2.2.2 World AR Glasses Diffraction Optical Waveguide Consumption Forecast by Region (2027-2032)
- 2.3 United States AR Glasses Diffraction Optical Waveguide Consumption (2021-2032)
- 2.4 China AR Glasses Diffraction Optical Waveguide Consumption (2021-2032)
- 2.5 Europe AR Glasses Diffraction Optical Waveguide Consumption (2021-2032)

- 2.6 Japan AR Glasses Diffraction Optical Waveguide Consumption (2021-2032)
- 2.7 South Korea AR Glasses Diffraction Optical Waveguide Consumption (2021-2032)
- 2.8 ASEAN AR Glasses Diffraction Optical Waveguide Consumption (2021-2032)
- 2.9 India AR Glasses Diffraction Optical Waveguide Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World AR Glasses Diffraction Optical Waveguide Production Value by Manufacturer (2021-2026)
- 3.2 World AR Glasses Diffraction Optical Waveguide Production by Manufacturer (2021-2026)
- 3.3 World AR Glasses Diffraction Optical Waveguide Average Price by Manufacturer (2021-2026)
- 3.4 AR Glasses Diffraction Optical Waveguide Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global AR Glasses Diffraction Optical Waveguide Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for AR Glasses Diffraction Optical Waveguide in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for AR Glasses Diffraction Optical Waveguide in 2025
- 3.6 AR Glasses Diffraction Optical Waveguide Market: Overall Company Footprint Analysis
 - 3.6.1 AR Glasses Diffraction Optical Waveguide Market: Region Footprint
 - 3.6.2 AR Glasses Diffraction Optical Waveguide Market: Company Product Type Footprint
 - 3.6.3 AR Glasses Diffraction Optical Waveguide Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: AR Glasses Diffraction Optical Waveguide Production Value Comparison

4.1.1 United States VS China: AR Glasses Diffraction Optical Waveguide Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: AR Glasses Diffraction Optical Waveguide Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: AR Glasses Diffraction Optical Waveguide Production Comparison

4.2.1 United States VS China: AR Glasses Diffraction Optical Waveguide Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: AR Glasses Diffraction Optical Waveguide Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: AR Glasses Diffraction Optical Waveguide Consumption Comparison

4.3.1 United States VS China: AR Glasses Diffraction Optical Waveguide Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: AR Glasses Diffraction Optical Waveguide Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based AR Glasses Diffraction Optical Waveguide Manufacturers and Market Share, 2021-2026

4.4.1 United States Based AR Glasses Diffraction Optical Waveguide Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Value (2021-2026)

4.4.3 United States Based Manufacturers AR Glasses Diffraction Optical Waveguide Production (2021-2026)

4.5 China Based AR Glasses Diffraction Optical Waveguide Manufacturers and Market Share

4.5.1 China Based AR Glasses Diffraction Optical Waveguide Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Value (2021-2026)

4.5.3 China Based Manufacturers AR Glasses Diffraction Optical Waveguide Production (2021-2026)

4.6 Rest of World Based AR Glasses Diffraction Optical Waveguide Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based AR Glasses Diffraction Optical Waveguide Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers AR Glasses Diffraction Optical Waveguide

Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World AR Glasses Diffraction Optical Waveguide Market Size Overview by Type:
2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Surface Relief Grating (SRG) Waveguide

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

5.2.3 Hybrid Diffraction Waveguide

5.3 Market Segment by Type

5.3.1 World AR Glasses Diffraction Optical Waveguide Production by Type
(2021-2032)

5.3.2 World AR Glasses Diffraction Optical Waveguide Production Value by Type
(2021-2032)

5.3.3 World AR Glasses Diffraction Optical Waveguide Average Price by Type
(2021-2032)

6 MARKET ANALYSIS BY DISPLAY COLOR

6.1 World AR Glasses Diffraction Optical Waveguide Market Size Overview by Display
Color: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Display Color

6.2.1 Monochrome

6.2.2 Dual-color

6.3 Market Segment by Display Color

6.3.1 World AR Glasses Diffraction Optical Waveguide Production by Display Color
(2021-2032)

6.3.2 World AR Glasses Diffraction Optical Waveguide Production Value by Display
Color (2021-2032)

6.3.3 World AR Glasses Diffraction Optical Waveguide Average Price by Display Color
(2021-2032)

7 MARKET ANALYSIS BY MATERIAL

7.1 World AR Glasses Diffraction Optical Waveguide Market Size Overview by Material:
2021 VS 2025 VS 2032

7.2 Segment Introduction by Material

7.2.1 Glass Waveguide

- 7.2.2 Polymer/Resin Waveguide
- 7.2.3 Silicon Carbide Waveguide
- 7.2.4 Composite Waveguide
- 7.3 Market Segment by Material
 - 7.3.1 World AR Glasses Diffraction Optical Waveguide Production by Material (2021-2032)
 - 7.3.2 World AR Glasses Diffraction Optical Waveguide Production Value by Material (2021-2032)
 - 7.3.3 World AR Glasses Diffraction Optical Waveguide Average Price by Material (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World AR Glasses Diffraction Optical Waveguide Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Industrial-grade Glasses
 - 8.2.2 Consumer-grade Glasses
- 8.3 Market Segment by Application
 - 8.3.1 World AR Glasses Diffraction Optical Waveguide Production by Application (2021-2032)
 - 8.3.2 World AR Glasses Diffraction Optical Waveguide Production Value by Application (2021-2032)
 - 8.3.3 World AR Glasses Diffraction Optical Waveguide Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Vuzix
 - 9.1.1 Vuzix Details
 - 9.1.2 Vuzix Major Business
 - 9.1.3 Vuzix AR Glasses Diffraction Optical Waveguide Product and Services
 - 9.1.4 Vuzix AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 Vuzix Recent Developments/Updates
 - 9.1.6 Vuzix Competitive Strengths & Weaknesses
- 9.2 Magic Leap
 - 9.2.1 Magic Leap Details
 - 9.2.2 Magic Leap Major Business

- 9.2.3 Magic Leap AR Glasses Diffraction Optical Waveguide Product and Services
- 9.2.4 Magic Leap AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Magic Leap Recent Developments/Updates
- 9.2.6 Magic Leap Competitive Strengths & Weaknesses
- 9.3 Lumus Optical
 - 9.3.1 Lumus Optical Details
 - 9.3.2 Lumus Optical Major Business
 - 9.3.3 Lumus Optical AR Glasses Diffraction Optical Waveguide Product and Services
 - 9.3.4 Lumus Optical AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Lumus Optical Recent Developments/Updates
 - 9.3.6 Lumus Optical Competitive Strengths & Weaknesses
- 9.4 DigiLens
 - 9.4.1 DigiLens Details
 - 9.4.2 DigiLens Major Business
 - 9.4.3 DigiLens AR Glasses Diffraction Optical Waveguide Product and Services
 - 9.4.4 DigiLens AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 DigiLens Recent Developments/Updates
 - 9.4.6 DigiLens Competitive Strengths & Weaknesses
- 9.5 WaveOptics
 - 9.5.1 WaveOptics Details
 - 9.5.2 WaveOptics Major Business
 - 9.5.3 WaveOptics AR Glasses Diffraction Optical Waveguide Product and Services
 - 9.5.4 WaveOptics AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 WaveOptics Recent Developments/Updates
 - 9.5.6 WaveOptics Competitive Strengths & Weaknesses
- 9.6 Dispelix
 - 9.6.1 Dispelix Details
 - 9.6.2 Dispelix Major Business
 - 9.6.3 Dispelix AR Glasses Diffraction Optical Waveguide Product and Services
 - 9.6.4 Dispelix AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Dispelix Recent Developments/Updates
 - 9.6.6 Dispelix Competitive Strengths & Weaknesses
- 9.7 Goertek
 - 9.7.1 Goertek Details

- 9.7.2 Goertek Major Business
- 9.7.3 Goertek AR Glasses Diffraction Optical Waveguide Product and Services
- 9.7.4 Goertek AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Goertek Recent Developments/Updates
- 9.7.6 Goertek Competitive Strengths & Weaknesses
- 9.8 Shanghai North Ocean Photonics
 - 9.8.1 Shanghai North Ocean Photonics Details
 - 9.8.2 Shanghai North Ocean Photonics Major Business
 - 9.8.3 Shanghai North Ocean Photonics AR Glasses Diffraction Optical Waveguide Product and Services
 - 9.8.4 Shanghai North Ocean Photonics AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Shanghai North Ocean Photonics Recent Developments/Updates
 - 9.8.6 Shanghai North Ocean Photonics Competitive Strengths & Weaknesses
- 9.9 Zhejiang Crystal-Optech
 - 9.9.1 Zhejiang Crystal-Optech Details
 - 9.9.2 Zhejiang Crystal-Optech Major Business
 - 9.9.3 Zhejiang Crystal-Optech AR Glasses Diffraction Optical Waveguide Product and Services
 - 9.9.4 Zhejiang Crystal-Optech AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Zhejiang Crystal-Optech Recent Developments/Updates
 - 9.9.6 Zhejiang Crystal-Optech Competitive Strengths & Weaknesses
- 9.10 Greater Tech
 - 9.10.1 Greater Tech Details
 - 9.10.2 Greater Tech Major Business
 - 9.10.3 Greater Tech AR Glasses Diffraction Optical Waveguide Product and Services
 - 9.10.4 Greater Tech AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Greater Tech Recent Developments/Updates
 - 9.10.6 Greater Tech Competitive Strengths & Weaknesses
- 9.11 Guangna Siwei
 - 9.11.1 Guangna Siwei Details
 - 9.11.2 Guangna Siwei Major Business
 - 9.11.3 Guangna Siwei AR Glasses Diffraction Optical Waveguide Product and Services
 - 9.11.4 Guangna Siwei AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.11.5 Guangna Siwei Recent Developments/Updates
- 9.11.6 Guangna Siwei Competitive Strengths & Weaknesses
- 9.12 Moldnano
 - 9.12.1 Moldnano Details
 - 9.12.2 Moldnano Major Business
 - 9.12.3 Moldnano AR Glasses Diffraction Optical Waveguide Product and Services
 - 9.12.4 Moldnano AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Moldnano Recent Developments/Updates
 - 9.12.6 Moldnano Competitive Strengths & Weaknesses
- 9.13 Shenzhen Optiark Semiconductor Technologies
 - 9.13.1 Shenzhen Optiark Semiconductor Technologies Details
 - 9.13.2 Shenzhen Optiark Semiconductor Technologies Major Business
 - 9.13.3 Shenzhen Optiark Semiconductor Technologies AR Glasses Diffraction Optical Waveguide Product and Services
 - 9.13.4 Shenzhen Optiark Semiconductor Technologies AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Shenzhen Optiark Semiconductor Technologies Recent Developments/Updates
 - 9.13.6 Shenzhen Optiark Semiconductor Technologies Competitive Strengths & Weaknesses
- 9.14 Tripole Optoelectronics Technology
 - 9.14.1 Tripole Optoelectronics Technology Details
 - 9.14.2 Tripole Optoelectronics Technology Major Business
 - 9.14.3 Tripole Optoelectronics Technology AR Glasses Diffraction Optical Waveguide Product and Services
 - 9.14.4 Tripole Optoelectronics Technology AR Glasses Diffraction Optical Waveguide Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Tripole Optoelectronics Technology Recent Developments/Updates
 - 9.14.6 Tripole Optoelectronics Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 AR Glasses Diffraction Optical Waveguide Industry Chain
- 10.2 AR Glasses Diffraction Optical Waveguide Upstream Analysis
 - 10.2.1 AR Glasses Diffraction Optical Waveguide Core Raw Materials
 - 10.2.2 Main Manufacturers of AR Glasses Diffraction Optical Waveguide Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis

- 10.5 AR Glasses Diffraction Optical Waveguide Production Mode
- 10.6 AR Glasses Diffraction Optical Waveguide Procurement Model
- 10.7 AR Glasses Diffraction Optical Waveguide Industry Sales Model and Sales Channels
 - 10.7.1 AR Glasses Diffraction Optical Waveguide Sales Model
 - 10.7.2 AR Glasses Diffraction Optical Waveguide Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World AR Glasses Diffraction Optical Waveguide Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World AR Glasses Diffraction Optical Waveguide Production Value by Region (2021-2026) & (USD Million)
- Table 3. World AR Glasses Diffraction Optical Waveguide Production Value by Region (2027-2032) & (USD Million)
- Table 4. World AR Glasses Diffraction Optical Waveguide Production Value Market Share by Region (2021-2026)
- Table 5. World AR Glasses Diffraction Optical Waveguide Production Value Market Share by Region (2027-2032)
- Table 6. World AR Glasses Diffraction Optical Waveguide Production by Region (2021-2026) & (K Units)
- Table 7. World AR Glasses Diffraction Optical Waveguide Production by Region (2027-2032) & (K Units)
- Table 8. World AR Glasses Diffraction Optical Waveguide Production Market Share by Region (2021-2026)
- Table 9. World AR Glasses Diffraction Optical Waveguide Production Market Share by Region (2027-2032)
- Table 10. World AR Glasses Diffraction Optical Waveguide Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World AR Glasses Diffraction Optical Waveguide Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. AR Glasses Diffraction Optical Waveguide Major Market Trends
- Table 13. World AR Glasses Diffraction Optical Waveguide Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World AR Glasses Diffraction Optical Waveguide Consumption by Region (2021-2026) & (K Units)
- Table 15. World AR Glasses Diffraction Optical Waveguide Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World AR Glasses Diffraction Optical Waveguide Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key AR Glasses Diffraction Optical Waveguide Producers in 2025
- Table 18. World AR Glasses Diffraction Optical Waveguide Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key AR Glasses Diffraction Optical Waveguide Producers in 2025

Table 20. World AR Glasses Diffraction Optical Waveguide Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global AR Glasses Diffraction Optical Waveguide Company Evaluation Quadrant

Table 22. World AR Glasses Diffraction Optical Waveguide Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and AR Glasses Diffraction Optical Waveguide Production Site of Key Manufacturer

Table 24. AR Glasses Diffraction Optical Waveguide Market: Company Product Type Footprint

Table 25. AR Glasses Diffraction Optical Waveguide Market: Company Product Application Footprint

Table 26. AR Glasses Diffraction Optical Waveguide Competitive Factors

Table 27. AR Glasses Diffraction Optical Waveguide New Entrant and Capacity Expansion Plans

Table 28. AR Glasses Diffraction Optical Waveguide Mergers & Acquisitions Activity

Table 29. United States VS China AR Glasses Diffraction Optical Waveguide Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China AR Glasses Diffraction Optical Waveguide Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China AR Glasses Diffraction Optical Waveguide Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based AR Glasses Diffraction Optical Waveguide Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers AR Glasses Diffraction Optical Waveguide Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Market Share (2021-2026)

Table 37. China Based AR Glasses Diffraction Optical Waveguide Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers AR Glasses Diffraction Optical Waveguide

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers AR Glasses Diffraction Optical Waveguide Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Market Share (2021-2026)

Table 42. Rest of World Based AR Glasses Diffraction Optical Waveguide Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers AR Glasses Diffraction Optical Waveguide Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Market Share (2021-2026)

Table 47. World AR Glasses Diffraction Optical Waveguide Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World AR Glasses Diffraction Optical Waveguide Production by Type (2021-2026) & (K Units)

Table 49. World AR Glasses Diffraction Optical Waveguide Production by Type (2027-2032) & (K Units)

Table 50. World AR Glasses Diffraction Optical Waveguide Production Value by Type (2021-2026) & (USD Million)

Table 51. World AR Glasses Diffraction Optical Waveguide Production Value by Type (2027-2032) & (USD Million)

Table 52. World AR Glasses Diffraction Optical Waveguide Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World AR Glasses Diffraction Optical Waveguide Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World AR Glasses Diffraction Optical Waveguide Production Value by Display Color, (USD Million), 2021 & 2025 & 2032

Table 55. World AR Glasses Diffraction Optical Waveguide Production by Display Color (2021-2026) & (K Units)

Table 56. World AR Glasses Diffraction Optical Waveguide Production by Display Color (2027-2032) & (K Units)

Table 57. World AR Glasses Diffraction Optical Waveguide Production Value by Display Color (2021-2026) & (USD Million)

Table 58. World AR Glasses Diffraction Optical Waveguide Production Value by Display Color (2027-2032) & (USD Million)

Table 59. World AR Glasses Diffraction Optical Waveguide Average Price by Display Color (2021-2026) & (US\$/Unit)

Table 60. World AR Glasses Diffraction Optical Waveguide Average Price by Display Color (2027-2032) & (US\$/Unit)

Table 61. World AR Glasses Diffraction Optical Waveguide Production Value by Material, (USD Million), 2021 & 2025 & 2032

Table 62. World AR Glasses Diffraction Optical Waveguide Production by Material (2021-2026) & (K Units)

Table 63. World AR Glasses Diffraction Optical Waveguide Production by Material (2027-2032) & (K Units)

Table 64. World AR Glasses Diffraction Optical Waveguide Production Value by Material (2021-2026) & (USD Million)

Table 65. World AR Glasses Diffraction Optical Waveguide Production Value by Material (2027-2032) & (USD Million)

Table 66. World AR Glasses Diffraction Optical Waveguide Average Price by Material (2021-2026) & (US\$/Unit)

Table 67. World AR Glasses Diffraction Optical Waveguide Average Price by Material (2027-2032) & (US\$/Unit)

Table 68. World AR Glasses Diffraction Optical Waveguide Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World AR Glasses Diffraction Optical Waveguide Production by Application (2021-2026) & (K Units)

Table 70. World AR Glasses Diffraction Optical Waveguide Production by Application (2027-2032) & (K Units)

Table 71. World AR Glasses Diffraction Optical Waveguide Production Value by Application (2021-2026) & (USD Million)

Table 72. World AR Glasses Diffraction Optical Waveguide Production Value by Application (2027-2032) & (USD Million)

Table 73. World AR Glasses Diffraction Optical Waveguide Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World AR Glasses Diffraction Optical Waveguide Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Vuzix Basic Information, Manufacturing Base and Competitors

Table 76. Vuzix Major Business

Table 77. Vuzix AR Glasses Diffraction Optical Waveguide Product and Services

Table 78. Vuzix AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Vuzix Recent Developments/Updates

- Table 80. Vuzix Competitive Strengths & Weaknesses
- Table 81. Magic Leap Basic Information, Manufacturing Base and Competitors
- Table 82. Magic Leap Major Business
- Table 83. Magic Leap AR Glasses Diffraction Optical Waveguide Product and Services
- Table 84. Magic Leap AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Magic Leap Recent Developments/Updates
- Table 86. Magic Leap Competitive Strengths & Weaknesses
- Table 87. Lumus Optical Basic Information, Manufacturing Base and Competitors
- Table 88. Lumus Optical Major Business
- Table 89. Lumus Optical AR Glasses Diffraction Optical Waveguide Product and Services
- Table 90. Lumus Optical AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Lumus Optical Recent Developments/Updates
- Table 92. Lumus Optical Competitive Strengths & Weaknesses
- Table 93. DigiLens Basic Information, Manufacturing Base and Competitors
- Table 94. DigiLens Major Business
- Table 95. DigiLens AR Glasses Diffraction Optical Waveguide Product and Services
- Table 96. DigiLens AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. DigiLens Recent Developments/Updates
- Table 98. DigiLens Competitive Strengths & Weaknesses
- Table 99. WaveOptics Basic Information, Manufacturing Base and Competitors
- Table 100. WaveOptics Major Business
- Table 101. WaveOptics AR Glasses Diffraction Optical Waveguide Product and Services
- Table 102. WaveOptics AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. WaveOptics Recent Developments/Updates
- Table 104. WaveOptics Competitive Strengths & Weaknesses
- Table 105. Dispelix Basic Information, Manufacturing Base and Competitors
- Table 106. Dispelix Major Business
- Table 107. Dispelix AR Glasses Diffraction Optical Waveguide Product and Services
- Table 108. Dispelix AR Glasses Diffraction Optical Waveguide Production (K Units),

Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Dispelix Recent Developments/Updates

Table 110. Dispelix Competitive Strengths & Weaknesses

Table 111. Goertek Basic Information, Manufacturing Base and Competitors

Table 112. Goertek Major Business

Table 113. Goertek AR Glasses Diffraction Optical Waveguide Product and Services

Table 114. Goertek AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Goertek Recent Developments/Updates

Table 116. Goertek Competitive Strengths & Weaknesses

Table 117. Shanghai North Ocean Photonics Basic Information, Manufacturing Base and Competitors

Table 118. Shanghai North Ocean Photonics Major Business

Table 119. Shanghai North Ocean Photonics AR Glasses Diffraction Optical Waveguide Product and Services

Table 120. Shanghai North Ocean Photonics AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Shanghai North Ocean Photonics Recent Developments/Updates

Table 122. Shanghai North Ocean Photonics Competitive Strengths & Weaknesses

Table 123. Zhejiang Crystal-Optech Basic Information, Manufacturing Base and Competitors

Table 124. Zhejiang Crystal-Optech Major Business

Table 125. Zhejiang Crystal-Optech AR Glasses Diffraction Optical Waveguide Product and Services

Table 126. Zhejiang Crystal-Optech AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Zhejiang Crystal-Optech Recent Developments/Updates

Table 128. Zhejiang Crystal-Optech Competitive Strengths & Weaknesses

Table 129. Greater Tech Basic Information, Manufacturing Base and Competitors

Table 130. Greater Tech Major Business

Table 131. Greater Tech AR Glasses Diffraction Optical Waveguide Product and Services

Table 132. Greater Tech AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 133. Greatar Tech Recent Developments/Updates
- Table 134. Greatar Tech Competitive Strengths & Weaknesses
- Table 135. Guangna Siwei Basic Information, Manufacturing Base and Competitors
- Table 136. Guangna Siwei Major Business
- Table 137. Guangna Siwei AR Glasses Diffraction Optical Waveguide Product and Services
- Table 138. Guangna Siwei AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Guangna Siwei Recent Developments/Updates
- Table 140. Guangna Siwei Competitive Strengths & Weaknesses
- Table 141. Moldnano Basic Information, Manufacturing Base and Competitors
- Table 142. Moldnano Major Business
- Table 143. Moldnano AR Glasses Diffraction Optical Waveguide Product and Services
- Table 144. Moldnano AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Moldnano Recent Developments/Updates
- Table 146. Moldnano Competitive Strengths & Weaknesses
- Table 147. Shenzhen Optiark Semiconductor Technologies Basic Information, Manufacturing Base and Competitors
- Table 148. Shenzhen Optiark Semiconductor Technologies Major Business
- Table 149. Shenzhen Optiark Semiconductor Technologies AR Glasses Diffraction Optical Waveguide Product and Services
- Table 150. Shenzhen Optiark Semiconductor Technologies AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Shenzhen Optiark Semiconductor Technologies Recent Developments/Updates
- Table 152. Shenzhen Optiark Semiconductor Technologies Competitive Strengths & Weaknesses
- Table 153. Tripole Optoelectronics Technology Basic Information, Manufacturing Base and Competitors
- Table 154. Tripole Optoelectronics Technology Major Business
- Table 155. Tripole Optoelectronics Technology AR Glasses Diffraction Optical Waveguide Product and Services
- Table 156. Tripole Optoelectronics Technology AR Glasses Diffraction Optical Waveguide Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Tripole Optoelectronics Technology Recent Developments/Updates

Table 158. Tripole Optoelectronics Technology Competitive Strengths & Weaknesses

Table 159. Global Key Players of AR Glasses Diffraction Optical Waveguide Upstream (Raw Materials)

Table 160. Global AR Glasses Diffraction Optical Waveguide Typical Customers

Table 161. AR Glasses Diffraction Optical Waveguide Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. AR Glasses Diffraction Optical Waveguide Picture

Figure 2. World AR Glasses Diffraction Optical Waveguide Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World AR Glasses Diffraction Optical Waveguide Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World AR Glasses Diffraction Optical Waveguide Production (2021-2032) & (K Units)

Figure 5. World AR Glasses Diffraction Optical Waveguide Average Price (2021-2032) & (US\$/Unit)

Figure 6. World AR Glasses Diffraction Optical Waveguide Production Value Market Share by Region (2021-2032)

Figure 7. World AR Glasses Diffraction Optical Waveguide Production Market Share by Region (2021-2032)

Figure 8. North America AR Glasses Diffraction Optical Waveguide Production (2021-2032) & (K Units)

Figure 9. Europe AR Glasses Diffraction Optical Waveguide Production (2021-2032) & (K Units)

Figure 10. China AR Glasses Diffraction Optical Waveguide Production (2021-2032) & (K Units)

Figure 11. Israel AR Glasses Diffraction Optical Waveguide Production (2021-2032) & (K Units)

Figure 12. AR Glasses Diffraction Optical Waveguide Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World AR Glasses Diffraction Optical Waveguide Consumption (2021-2032) & (K Units)

Figure 15. World AR Glasses Diffraction Optical Waveguide Consumption Market Share by Region (2021-2032)

Figure 16. United States AR Glasses Diffraction Optical Waveguide Consumption (2021-2032) & (K Units)

Figure 17. China AR Glasses Diffraction Optical Waveguide Consumption (2021-2032) & (K Units)

Figure 18. Europe AR Glasses Diffraction Optical Waveguide Consumption (2021-2032) & (K Units)

Figure 19. Japan AR Glasses Diffraction Optical Waveguide Consumption (2021-2032) & (K Units)

Figure 20. South Korea AR Glasses Diffraction Optical Waveguide Consumption (2021-2032) & (K Units)

Figure 21. ASEAN AR Glasses Diffraction Optical Waveguide Consumption (2021-2032) & (K Units)

Figure 22. India AR Glasses Diffraction Optical Waveguide Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of AR Glasses Diffraction Optical Waveguide by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for AR Glasses Diffraction Optical Waveguide Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for AR Glasses Diffraction Optical Waveguide Markets in 2025

Figure 26. United States VS China: AR Glasses Diffraction Optical Waveguide Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: AR Glasses Diffraction Optical Waveguide Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: AR Glasses Diffraction Optical Waveguide Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Market Share 2025

Figure 30. China Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Market Share 2025

Figure 31. Rest of World Based Manufacturers AR Glasses Diffraction Optical Waveguide Production Market Share 2025

Figure 32. World AR Glasses Diffraction Optical Waveguide Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World AR Glasses Diffraction Optical Waveguide Production Value Market Share by Type in 2025

Figure 34. Surface Relief Grating (SRG) Waveguide

Figure 35. Volume Holographic Grating (VHG) Waveguide (VHG/HOE)

Figure 36. Hybrid Diffraction Waveguide

Figure 37. World AR Glasses Diffraction Optical Waveguide Production Market Share by Type (2021-2032)

Figure 38. World AR Glasses Diffraction Optical Waveguide Production Value Market Share by Type (2021-2032)

Figure 39. World AR Glasses Diffraction Optical Waveguide Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World AR Glasses Diffraction Optical Waveguide Production Value by Display Color, (USD Million), 2021 & 2025 & 2032

Figure 41. World AR Glasses Diffraction Optical Waveguide Production Value Market Share by Display Color in 2025

Figure 42. Monochrome

Figure 43. Dual-color

Figure 44. World AR Glasses Diffraction Optical Waveguide Production Market Share by Display Color (2021-2032)

Figure 45. World AR Glasses Diffraction Optical Waveguide Production Value Market Share by Display Color (2021-2032)

Figure 46. World AR Glasses Diffraction Optical Waveguide Average Price by Display Color (2021-2032) & (US\$/Unit)

Figure 47. World AR Glasses Diffraction Optical Waveguide Production Value by Material, (USD Million), 2021 & 2025 & 2032

Figure 48. World AR Glasses Diffraction Optical Waveguide Production Value Market Share by Material in 2025

Figure 49. Glass Waveguide

Figure 50. Polymer/Resin Waveguide

Figure 51. Silicon Carbide Waveguide

Figure 52. Composite Waveguide

Figure 53. World AR Glasses Diffraction Optical Waveguide Production Market Share by Material (2021-2032)

Figure 54. World AR Glasses Diffraction Optical Waveguide Production Value Market Share by Material (2021-2032)

Figure 55. World AR Glasses Diffraction Optical Waveguide Average Price by Material (2021-2032) & (US\$/Unit)

Figure 56. World AR Glasses Diffraction Optical Waveguide Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World AR Glasses Diffraction Optical Waveguide Production Value Market Share by Application in 2025

Figure 58. Industrial-grade Glasses

Figure 59. Consumer-grade Glasses

Figure 60. World AR Glasses Diffraction Optical Waveguide Production Market Share by Application (2021-2032)

Figure 61. World AR Glasses Diffraction Optical Waveguide Production Value Market Share by Application (2021-2032)

Figure 62. World AR Glasses Diffraction Optical Waveguide Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. AR Glasses Diffraction Optical Waveguide Industry Chain

Figure 64. AR Glasses Diffraction Optical Waveguide Procurement Model

Figure 65. AR Glasses Diffraction Optical Waveguide Sales Model

Figure 66. AR Glasses Diffraction Optical Waveguide Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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