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# Global Glass Substrate for AR/MR Waveguide Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GC3B379EED18EN.html
Date: October 2026
Pages: 98
Price: US$ 3,480.00 (Single User License)
ID: GC3B379EED18EN

## Abstracts

According to our (Global Info Research) latest study, the global Glass Substrate for AR/MR Waveguide market size was valued at US$ 325 million in 2025 and is forecast to a readjusted size of US$ 455 million by 2032 with a CAGR of 5.0% during review period.

The AR/MR Waveguide Glass Substrate is a high-precision optical material specifically designed for augmented reality and mixed reality waveguide systems, featuring high transmittance, high refractive index, and excellent thermal stability. Serving as the core carrier for light propagation and image projection, the substrate uses micro- and nano-structured surface processing to efficiently guide and control light, minimizing optical loss and distortion while ensuring image clarity and immersive experience in wearable devices. In the industrial chain, the upstream includes manufacturers of high-purity optical glass materials and substrates, such as DISCO, Lapmaster, SCHOTT, and Hoya; the midstream covers precision cutting, polishing, coating, and optical inspection of AR/MR waveguide glass substrates, which are critical processes determining optical performance and yield; the downstream applications focus on AR and MR devices, with representative companies including Apple, Microsoft, and Magic Leap. In 2024, the production of AR/MR waveguide glass substrates was 5 million pieces, with an average price of 60 USD per piece, an annual capacity per production line of approximately 20,000 pieces, and an average gross margin of about 49%.

Driven by the rapid adoption of AR/MR devices, particularly in gaming, education and training, remote collaboration, and industrial design, demand for high-performance optical substrates continues to rise, while innovations in material quality, nanofabrication precision, and optical integration remain essential to meet stringent requirements for

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clarity, durability, and manufacturability.

This report is a detailed and comprehensive analysis for global Glass Substrate for AR/MR Waveguide market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Diameters and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

## Key Features:

Global Glass Substrate for AR/MR Waveguide market size and forecasts, in consumption value ($ Million), sales quantity (K Pcs), and average selling prices (US$/Pcs), 2021-2032

Global Glass Substrate for AR/MR Waveguide market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Pcs), and average selling prices (US$/Pcs), 2021-2032

Global Glass Substrate for AR/MR Waveguide market size and forecasts, by Diameters and by Application, in consumption value ($ Million), sales quantity (K Pcs), and average selling prices (US$/Pcs), 2021-2032

Global Glass Substrate for AR/MR Waveguide market shares of main players, shipments in revenue ($ Million), sales quantity (K Pcs), and ASP (US$/Pcs), 2021-2026

## The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Glass Substrate for AR/MR Waveguide

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Glass Substrate for AR/MR Waveguide market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hoya, Corning, Schott, AGC, Nippon Electric Glass (NEG), Hubei New Huaguang Information Materials, Zhejiang Lante Optics, PlanOptik, etc.

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

## Market Segmentation

Glass Substrate for AR/MR Waveguide market is split by Diameters and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Diameters, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Diameters

Lanthanum-Based Glass Type

Phosphate-Based Glass Type

Silicate-Based Glass Type

Others

### Market segment by Refractive Index

n<1.8

1.8?n?1.9

n>1.9

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## Market segment by Thickness

Thickness<0.3mm

0.3mm?Thickness?0.7mm

Others

## Market segment by Size

300mm (12 inch)

200mm (8 inch)

150mm (6 inch)

## Market segment by Application

Augmented Reality Devices

Mixed Reality Devices

Others

# Major players covered

Hoya

Corning

Schott

AGC

Nippon Electric Glass (NEG)

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Hubei New Huaguang Information Materials

Zhejiang Lante Optics

PlanOptik

### Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

## The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Glass Substrate for AR/MR Waveguide product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Glass Substrate for AR/MR Waveguide, with price, sales quantity, revenue, and global market share of Glass Substrate for AR/MR Waveguide from 2021 to 2026.

Chapter 3, the Glass Substrate for AR/MR Waveguide competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Glass Substrate for AR/MR Waveguide breakdown data are shown at the regional level, to show the sales quantity, consumption value, and

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growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Diameters and by Application, with sales market share and growth rate by Diameters, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Glass Substrate for AR/MR Waveguide market forecast, by regions, by Diameters, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Glass Substrate for AR/MR Waveguide.

Chapter 14 and 15, to describe Glass Substrate for AR/MR Waveguide sales channel, distributors, customers, research findings and conclusion.

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# Contents


## 1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Diameters
  1.3.1 Overview: Global Glass Substrate for AR/MR Waveguide Consumption Value by Diameters: 2021 Versus 2025 Versus 2032
  1.3.2 Lanthanum-Based Glass Type
  1.3.3 Phosphate-Based Glass Type
  1.3.4 Silicate-Based Glass Type
  1.3.5 Others
1.4 Market Analysis by Refractive Index
  1.4.1 Overview: Global Glass Substrate for AR/MR Waveguide Consumption Value by Refractive Index: 2021 Versus 2025 Versus 2032
  1.4.2 n<1.8
  1.4.3 1.8?n?1.9
  1.4.4 n>1.9
1.5 Market Analysis by Thickness
  1.5.1 Overview: Global Glass Substrate for AR/MR Waveguide Consumption Value by Thickness: 2021 Versus 2025 Versus 2032
  1.5.2 Thickness<0.3mm
  1.5.3 0.3mm?Thickness?0.7mm
  1.5.4 Others
1.6 Market Analysis by Size
  1.6.1 Overview: Global Glass Substrate for AR/MR Waveguide Consumption Value by Size: 2021 Versus 2025 Versus 2032
  1.6.2 300mm (12 inch)
  1.6.3 200mm (8 inch)
  1.6.4 150mm (6 inch)
1.7 Market Analysis by Application
  1.7.1 Overview: Global Glass Substrate for AR/MR Waveguide Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.7.2 Augmented Reality Devices
  1.7.3 Mixed Reality Devices
  1.7.4 Others
1.8 Global Glass Substrate for AR/MR Waveguide Market Size & Forecast
  1.8.1 Global Glass Substrate for AR/MR Waveguide Consumption Value (2021 & 2025

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& 2032)
1.8.2 Global Glass Substrate for AR/MR Waveguide Sales Quantity (2021-2032)
1.8.3 Global Glass Substrate for AR/MR Waveguide Average Price (2021-2032)

## 2 MANUFACTURERS PROFILES

2.1 Hoya
2.1.1 Hoya Details
2.1.2 Hoya Major Business
2.1.3 Hoya Glass Substrate for AR/MR Waveguide Product and Services
2.1.4 Hoya Glass Substrate for AR/MR Waveguide Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Hoya Recent Developments/Updates
2.2 Corning
2.2.1 Corning Details
2.2.2 Corning Major Business
2.2.3 Corning Glass Substrate for AR/MR Waveguide Product and Services
2.2.4 Corning Glass Substrate for AR/MR Waveguide Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Corning Recent Developments/Updates
2.3 Schott
2.3.1 Schott Details
2.3.2 Schott Major Business
2.3.3 Schott Glass Substrate for AR/MR Waveguide Product and Services
2.3.4 Schott Glass Substrate for AR/MR Waveguide Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 Schott Recent Developments/Updates
2.4 AGC
2.4.1 AGC Details
2.4.2 AGC Major Business
2.4.3 AGC Glass Substrate for AR/MR Waveguide Product and Services
2.4.4 AGC Glass Substrate for AR/MR Waveguide Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 AGC Recent Developments/Updates
2.5 Nippon Electric Glass (NEG)
2.5.1 Nippon Electric Glass (NEG) Details
2.5.2 Nippon Electric Glass (NEG) Major Business
2.5.3 Nippon Electric Glass (NEG) Glass Substrate for AR/MR Waveguide Product and Services

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2.5.4 Nippon Electric Glass (NEG) Glass Substrate for AR/MR Waveguide Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 Nippon Electric Glass (NEG) Recent Developments/Updates
2.6 Hubei New Huaguang Information Materials
2.6.1 Hubei New Huaguang Information Materials Details
2.6.2 Hubei New Huaguang Information Materials Major Business
2.6.3 Hubei New Huaguang Information Materials Glass Substrate for AR/MR Waveguide Product and Services
2.6.4 Hubei New Huaguang Information Materials Glass Substrate for AR/MR Waveguide Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.6.5 Hubei New Huaguang Information Materials Recent Developments/Updates
2.7 Zhejiang Lante Optics
2.7.1 Zhejiang Lante Optics Details
2.7.2 Zhejiang Lante Optics Major Business
2.7.3 Zhejiang Lante Optics Glass Substrate for AR/MR Waveguide Product and Services
2.7.4 Zhejiang Lante Optics Glass Substrate for AR/MR Waveguide Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.7.5 Zhejiang Lante Optics Recent Developments/Updates
2.8 PlanOptik
2.8.1 PlanOptik Details
2.8.2 PlanOptik Major Business
2.8.3 PlanOptik Glass Substrate for AR/MR Waveguide Product and Services
2.8.4 PlanOptik Glass Substrate for AR/MR Waveguide Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.8.5 PlanOptik Recent Developments/Updates

## 3 COMPETITIVE ENVIRONMENT: GLASS SUBSTRATE FOR AR/MR WAVEGUIDE BY MANUFACTURER

3.1 Global Glass Substrate for AR/MR Waveguide Sales Quantity by Manufacturer (2021-2026)
3.2 Global Glass Substrate for AR/MR Waveguide Revenue by Manufacturer (2021-2026)
3.3 Global Glass Substrate for AR/MR Waveguide Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
3.4.1 Producer Shipments of Glass Substrate for AR/MR Waveguide by Manufacturer

+357 96 030922
info@marketpublishers.com

Revenue ($MM) and Market Share (%): 2025
3.4.2 Top 3 Glass Substrate for AR/MR Waveguide Manufacturer Market Share in 2025
3.4.3 Top 6 Glass Substrate for AR/MR Waveguide Manufacturer Market Share in 2025
3.5 Glass Substrate for AR/MR Waveguide Market: Overall Company Footprint Analysis
3.5.1 Glass Substrate for AR/MR Waveguide Market: Region Footprint
3.5.2 Glass Substrate for AR/MR Waveguide Market: Company Product Type Footprint
3.5.3 Glass Substrate for AR/MR Waveguide Market: Company Product Application Footprint
3.6 New Market Entrants and Barriers to Market Entry
3.7 Mergers, Acquisition, Agreements, and Collaborations

**4 CONSUMPTION ANALYSIS BY REGION**

4.1 Global Glass Substrate for AR/MR Waveguide Market Size by Region
4.1.1 Global Glass Substrate for AR/MR Waveguide Sales Quantity by Region (2021-2032)
4.1.2 Global Glass Substrate for AR/MR Waveguide Consumption Value by Region (2021-2032)
4.1.3 Global Glass Substrate for AR/MR Waveguide Average Price by Region (2021-2032)
4.2 North America Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032)
4.3 Europe Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032)
4.4 Asia-Pacific Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032)
4.5 South America Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032)
4.6 Middle East & Africa Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032)

**5 MARKET SEGMENT BY DIAMETERS**

5.1 Global Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2021-2032)
5.2 Global Glass Substrate for AR/MR Waveguide Consumption Value by Diameters (2021-2032)

+357 96 030922
info@marketpublishers.com

5.3 Global Glass Substrate for AR/MR Waveguide Average Price by Diameters (2021-2032)

**6 MARKET SEGMENT BY APPLICATION**

6.1 Global Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2021-2032)
6.2 Global Glass Substrate for AR/MR Waveguide Consumption Value by Application (2021-2032)
6.3 Global Glass Substrate for AR/MR Waveguide Average Price by Application (2021-2032)

**7 NORTH AMERICA**

7.1 North America Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2021-2032)
7.2 North America Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2021-2032)
7.3 North America Glass Substrate for AR/MR Waveguide Market Size by Country
  7.3.1 North America Glass Substrate for AR/MR Waveguide Sales Quantity by Country (2021-2032)
  7.3.2 North America Glass Substrate for AR/MR Waveguide Consumption Value by Country (2021-2032)
  7.3.3 United States Market Size and Forecast (2021-2032)
  7.3.4 Canada Market Size and Forecast (2021-2032)
  7.3.5 Mexico Market Size and Forecast (2021-2032)

**8 EUROPE**

8.1 Europe Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2021-2032)
8.2 Europe Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2021-2032)
8.3 Europe Glass Substrate for AR/MR Waveguide Market Size by Country
  8.3.1 Europe Glass Substrate for AR/MR Waveguide Sales Quantity by Country (2021-2032)
  8.3.2 Europe Glass Substrate for AR/MR Waveguide Consumption Value by Country (2021-2032)
  8.3.3 Germany Market Size and Forecast (2021-2032)

+357 96 030922
info@marketpublishers.com

8.3.4 France Market Size and Forecast (2021-2032)
8.3.5 United Kingdom Market Size and Forecast (2021-2032)
8.3.6 Russia Market Size and Forecast (2021-2032)
8.3.7 Italy Market Size and Forecast (2021-2032)

**9 ASIA-PACIFIC**

9.1 Asia-Pacific Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2021-2032)
9.2 Asia-Pacific Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific Glass Substrate for AR/MR Waveguide Market Size by Region
9.3.1 Asia-Pacific Glass Substrate for AR/MR Waveguide Sales Quantity by Region (2021-2032)
9.3.2 Asia-Pacific Glass Substrate for AR/MR Waveguide Consumption Value by Region (2021-2032)
9.3.3 China Market Size and Forecast (2021-2032)
9.3.4 Japan Market Size and Forecast (2021-2032)
9.3.5 South Korea Market Size and Forecast (2021-2032)
9.3.6 India Market Size and Forecast (2021-2032)
9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
9.3.8 Australia Market Size and Forecast (2021-2032)

**10 SOUTH AMERICA**

10.1 South America Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2021-2032)
10.2 South America Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2021-2032)
10.3 South America Glass Substrate for AR/MR Waveguide Market Size by Country
10.3.1 South America Glass Substrate for AR/MR Waveguide Sales Quantity by Country (2021-2032)
10.3.2 South America Glass Substrate for AR/MR Waveguide Consumption Value by Country (2021-2032)
10.3.3 Brazil Market Size and Forecast (2021-2032)
10.3.4 Argentina Market Size and Forecast (2021-2032)

**11 MIDDLE EAST & AFRICA**

+357 96 030922
info@marketpublishers.com

11.1 Middle East & Africa Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2021-2032)
11.2 Middle East & Africa Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa Glass Substrate for AR/MR Waveguide Market Size by Country
  11.3.1 Middle East & Africa Glass Substrate for AR/MR Waveguide Sales Quantity by Country (2021-2032)
  11.3.2 Middle East & Africa Glass Substrate for AR/MR Waveguide Consumption Value by Country (2021-2032)
  11.3.3 Turkey Market Size and Forecast (2021-2032)
  11.3.4 Egypt Market Size and Forecast (2021-2032)
  11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
  11.3.6 South Africa Market Size and Forecast (2021-2032)

**12 MARKET DYNAMICS**

12.1 Glass Substrate for AR/MR Waveguide Market Drivers
12.2 Glass Substrate for AR/MR Waveguide Market Restraints
12.3 Glass Substrate for AR/MR Waveguide Trends Analysis
12.4 Porters Five Forces Analysis
  12.4.1 Threat of New Entrants
  12.4.2 Bargaining Power of Suppliers
  12.4.3 Bargaining Power of Buyers
  12.4.4 Threat of Substitutes
  12.4.5 Competitive Rivalry

**13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Glass Substrate for AR/MR Waveguide and Key Manufacturers
13.2 Manufacturing Costs Percentage of Glass Substrate for AR/MR Waveguide
13.3 Glass Substrate for AR/MR Waveguide Production Process
13.4 Industry Value Chain Analysis

**14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel
  14.1.1 Direct to End-User
  14.1.2 Distributors

+357 96 030922
info@marketpublishers.com

14.2 Glass Substrate for AR/MR Waveguide Typical Distributors
14.3 Glass Substrate for AR/MR Waveguide Typical Customers

**15 RESEARCH FINDINGS AND CONCLUSION**

**16 APPENDIX**

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

+357 96 030922
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# List Of Tables

## LIST OF TABLES

Table 1. Global Glass Substrate for AR/MR Waveguide Consumption Value by Diameters, (USD Million), 2021 & 2025 & 2032
Table 2. Global Glass Substrate for AR/MR Waveguide Consumption Value by Refractive Index, (USD Million), 2021 & 2025 & 2032
Table 3. Global Glass Substrate for AR/MR Waveguide Consumption Value by Thickness, (USD Million), 2021 & 2025 & 2032
Table 4. Global Glass Substrate for AR/MR Waveguide Consumption Value by Size, (USD Million), 2021 & 2025 & 2032
Table 5. Global Glass Substrate for AR/MR Waveguide Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 6. Hoya Basic Information, Manufacturing Base and Competitors
Table 7. Hoya Major Business
Table 8. Hoya Glass Substrate for AR/MR Waveguide Product and Services
Table 9. Hoya Glass Substrate for AR/MR Waveguide Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 10. Hoya Recent Developments/Updates
Table 11. Corning Basic Information, Manufacturing Base and Competitors
Table 12. Corning Major Business
Table 13. Corning Glass Substrate for AR/MR Waveguide Product and Services
Table 14. Corning Glass Substrate for AR/MR Waveguide Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 15. Corning Recent Developments/Updates
Table 16. Schott Basic Information, Manufacturing Base and Competitors
Table 17. Schott Major Business
Table 18. Schott Glass Substrate for AR/MR Waveguide Product and Services
Table 19. Schott Glass Substrate for AR/MR Waveguide Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 20. Schott Recent Developments/Updates
Table 21. AGC Basic Information, Manufacturing Base and Competitors
Table 22. AGC Major Business
Table 23. AGC Glass Substrate for AR/MR Waveguide Product and Services
Table 24. AGC Glass Substrate for AR/MR Waveguide Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 25. AGC Recent Developments/Updates
Table 26. Nippon Electric Glass (NEG) Basic Information, Manufacturing Base and Competitors
Table 27. Nippon Electric Glass (NEG) Major Business
Table 28. Nippon Electric Glass (NEG) Glass Substrate for AR/MR Waveguide Product and Services
Table 29. Nippon Electric Glass (NEG) Glass Substrate for AR/MR Waveguide Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 30. Nippon Electric Glass (NEG) Recent Developments/Updates
Table 31. Hubei New Huaguang Information Materials Basic Information, Manufacturing Base and Competitors
Table 32. Hubei New Huaguang Information Materials Major Business
Table 33. Hubei New Huaguang Information Materials Glass Substrate for AR/MR Waveguide Product and Services
Table 34. Hubei New Huaguang Information Materials Glass Substrate for AR/MR Waveguide Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 35. Hubei New Huaguang Information Materials Recent Developments/Updates
Table 36. Zhejiang Lante Optics Basic Information, Manufacturing Base and Competitors
Table 37. Zhejiang Lante Optics Major Business
Table 38. Zhejiang Lante Optics Glass Substrate for AR/MR Waveguide Product and Services
Table 39. Zhejiang Lante Optics Glass Substrate for AR/MR Waveguide Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 40. Zhejiang Lante Optics Recent Developments/Updates
Table 41. PlanOptik Basic Information, Manufacturing Base and Competitors
Table 42. PlanOptik Major Business
Table 43. PlanOptik Glass Substrate for AR/MR Waveguide Product and Services
Table 44. PlanOptik Glass Substrate for AR/MR Waveguide Sales Quantity (K Pcs), Average Price (US$/Pcs), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 45. PlanOptik Recent Developments/Updates
Table 46. Global Glass Substrate for AR/MR Waveguide Sales Quantity by Manufacturer (2021-2026) & (K Pcs)
Table 47. Global Glass Substrate for AR/MR Waveguide Revenue by Manufacturer (2021-2026) & (USD Million)

+357 96 030922
info@marketpublishers.com

Table 48. Global Glass Substrate for AR/MR Waveguide Average Price by Manufacturer (2021-2026) & (US$/Pcs)
Table 49. Market Position of Manufacturers in Glass Substrate for AR/MR Waveguide, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 50. Head Office and Glass Substrate for AR/MR Waveguide Production Site of Key Manufacturer
Table 51. Glass Substrate for AR/MR Waveguide Market: Company Product Type Footprint
Table 52. Glass Substrate for AR/MR Waveguide Market: Company Product Application Footprint
Table 53. Glass Substrate for AR/MR Waveguide New Market Entrants and Barriers to Market Entry
Table 54. Glass Substrate for AR/MR Waveguide Mergers, Acquisition, Agreements, and Collaborations
Table 55. Global Glass Substrate for AR/MR Waveguide Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 56. Global Glass Substrate for AR/MR Waveguide Sales Quantity by Region (2021-2026) & (K Pcs)
Table 57. Global Glass Substrate for AR/MR Waveguide Sales Quantity by Region (2027-2032) & (K Pcs)
Table 58. Global Glass Substrate for AR/MR Waveguide Consumption Value by Region (2021-2026) & (USD Million)
Table 59. Global Glass Substrate for AR/MR Waveguide Consumption Value by Region (2027-2032) & (USD Million)
Table 60. Global Glass Substrate for AR/MR Waveguide Average Price by Region (2021-2026) & (US$/Pcs)
Table 61. Global Glass Substrate for AR/MR Waveguide Average Price by Region (2027-2032) & (US$/Pcs)
Table 62. Global Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2021-2026) & (K Pcs)
Table 63. Global Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2027-2032) & (K Pcs)
Table 64. Global Glass Substrate for AR/MR Waveguide Consumption Value by Diameters (2021-2026) & (USD Million)
Table 65. Global Glass Substrate for AR/MR Waveguide Consumption Value by Diameters (2027-2032) & (USD Million)
Table 66. Global Glass Substrate for AR/MR Waveguide Average Price by Diameters (2021-2026) & (US$/Pcs)
Table 67. Global Glass Substrate for AR/MR Waveguide Average Price by Diameters

+357 96 030922
info@marketpublishers.com

(2027-2032) & (US$/Pcs)
Table 68. Global Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2021-2026) & (K Pcs)
Table 69. Global Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2027-2032) & (K Pcs)
Table 70. Global Glass Substrate for AR/MR Waveguide Consumption Value by Application (2021-2026) & (USD Million)
Table 71. Global Glass Substrate for AR/MR Waveguide Consumption Value by Application (2027-2032) & (USD Million)
Table 72. Global Glass Substrate for AR/MR Waveguide Average Price by Application (2021-2026) & (US$/Pcs)
Table 73. Global Glass Substrate for AR/MR Waveguide Average Price by Application (2027-2032) & (US$/Pcs)
Table 74. North America Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2021-2026) & (K Pcs)
Table 75. North America Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2027-2032) & (K Pcs)
Table 76. North America Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2021-2026) & (K Pcs)
Table 77. North America Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2027-2032) & (K Pcs)
Table 78. North America Glass Substrate for AR/MR Waveguide Sales Quantity by Country (2021-2026) & (K Pcs)
Table 79. North America Glass Substrate for AR/MR Waveguide Sales Quantity by Country (2027-2032) & (K Pcs)
Table 80. North America Glass Substrate for AR/MR Waveguide Consumption Value by Country (2021-2026) & (USD Million)
Table 81. North America Glass Substrate for AR/MR Waveguide Consumption Value by Country (2027-2032) & (USD Million)
Table 82. Europe Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2021-2026) & (K Pcs)
Table 83. Europe Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2027-2032) & (K Pcs)
Table 84. Europe Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2021-2026) & (K Pcs)
Table 85. Europe Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2027-2032) & (K Pcs)
Table 86. Europe Glass Substrate for AR/MR Waveguide Sales Quantity by Country (2021-2026) & (K Pcs)

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Table 87. Europe Glass Substrate for AR/MR Waveguide Sales Quantity by Country (2027-2032) & (K Pcs)
Table 88. Europe Glass Substrate for AR/MR Waveguide Consumption Value by Country (2021-2026) & (USD Million)
Table 89. Europe Glass Substrate for AR/MR Waveguide Consumption Value by Country (2027-2032) & (USD Million)
Table 90. Asia-Pacific Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2021-2026) & (K Pcs)
Table 91. Asia-Pacific Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2027-2032) & (K Pcs)
Table 92. Asia-Pacific Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2021-2026) & (K Pcs)
Table 93. Asia-Pacific Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2027-2032) & (K Pcs)
Table 94. Asia-Pacific Glass Substrate for AR/MR Waveguide Sales Quantity by Region (2021-2026) & (K Pcs)
Table 95. Asia-Pacific Glass Substrate for AR/MR Waveguide Sales Quantity by Region (2027-2032) & (K Pcs)
Table 96. Asia-Pacific Glass Substrate for AR/MR Waveguide Consumption Value by Region (2021-2026) & (USD Million)
Table 97. Asia-Pacific Glass Substrate for AR/MR Waveguide Consumption Value by Region (2027-2032) & (USD Million)
Table 98. South America Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2021-2026) & (K Pcs)
Table 99. South America Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2027-2032) & (K Pcs)
Table 100. South America Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2021-2026) & (K Pcs)
Table 101. South America Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2027-2032) & (K Pcs)
Table 102. South America Glass Substrate for AR/MR Waveguide Sales Quantity by Country (2021-2026) & (K Pcs)
Table 103. South America Glass Substrate for AR/MR Waveguide Sales Quantity by Country (2027-2032) & (K Pcs)
Table 104. South America Glass Substrate for AR/MR Waveguide Consumption Value by Country (2021-2026) & (USD Million)
Table 105. South America Glass Substrate for AR/MR Waveguide Consumption Value by Country (2027-2032) & (USD Million)
Table 106. Middle East & Africa Glass Substrate for AR/MR Waveguide Sales Quantity

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by Diameters (2021-2026) & (K Pcs)
Table 107. Middle East & Africa Glass Substrate for AR/MR Waveguide Sales Quantity by Diameters (2027-2032) & (K Pcs)
Table 108. Middle East & Africa Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2021-2026) & (K Pcs)
Table 109. Middle East & Africa Glass Substrate for AR/MR Waveguide Sales Quantity by Application (2027-2032) & (K Pcs)
Table 110. Middle East & Africa Glass Substrate for AR/MR Waveguide Sales Quantity by Country (2021-2026) & (K Pcs)
Table 111. Middle East & Africa Glass Substrate for AR/MR Waveguide Sales Quantity by Country (2027-2032) & (K Pcs)
Table 112. Middle East & Africa Glass Substrate for AR/MR Waveguide Consumption Value by Country (2021-2026) & (USD Million)
Table 113. Middle East & Africa Glass Substrate for AR/MR Waveguide Consumption Value by Country (2027-2032) & (USD Million)
Table 114. Glass Substrate for AR/MR Waveguide Raw Material
Table 115. Key Manufacturers of Glass Substrate for AR/MR Waveguide Raw Materials
Table 116. Glass Substrate for AR/MR Waveguide Typical Distributors
Table 117. Glass Substrate for AR/MR Waveguide Typical Customers

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# List Of Figures

## LIST OF FIGURES

Figure 1. Glass Substrate for AR/MR Waveguide Picture
Figure 2. Global Glass Substrate for AR/MR Waveguide Revenue by Diameters, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Glass Substrate for AR/MR Waveguide Revenue Market Share by Diameters in 2025
Figure 4. Lanthanum-Based Glass Type Examples
Figure 5. Phosphate-Based Glass Type Examples
Figure 6. Silicate-Based Glass Type Examples
Figure 7. Others Examples
Figure 8. Global Glass Substrate for AR/MR Waveguide Revenue by Refractive Index, (USD Million), 2021 & 2025 & 2032
Figure 9. Global Glass Substrate for AR/MR Waveguide Revenue Market Share by Refractive Index in 2025
Figure 10. n<1.8 Examples
Figure 11. 1.8?n?1.9 Examples
Figure 12. n>1.9 Examples
Figure 13. Global Glass Substrate for AR/MR Waveguide Revenue by Thickness, (USD Million), 2021 & 2025 & 2032
Figure 14. Global Glass Substrate for AR/MR Waveguide Revenue Market Share by Thickness in 2025
Figure 15. Thickness<0.3mm Examples
Figure 16. 0.3mm?Thickness?0.7mm Examples
Figure 17. Others Examples
Figure 18. Global Glass Substrate for AR/MR Waveguide Revenue by Size, (USD Million), 2021 & 2025 & 2032
Figure 19. Global Glass Substrate for AR/MR Waveguide Revenue Market Share by Size in 2025
Figure 20. 300mm (12 inch) Examples
Figure 21. 200mm (8 inch) Examples
Figure 22. 150mm (6 inch) Examples
Figure 23. Global Glass Substrate for AR/MR Waveguide Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 24. Global Glass Substrate for AR/MR Waveguide Revenue Market Share by Application in 2025
Figure 25. Augmented Reality Devices Examples

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Figure 26. Mixed Reality Devices Examples
Figure 27. Others Examples
Figure 28. Global Glass Substrate for AR/MR Waveguide Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 29. Global Glass Substrate for AR/MR Waveguide Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 30. Global Glass Substrate for AR/MR Waveguide Sales Quantity (2021-2032) & (K Pcs)
Figure 31. Global Glass Substrate for AR/MR Waveguide Price (2021-2032) & (US$/Pcs)
Figure 32. Global Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Manufacturer in 2025
Figure 33. Global Glass Substrate for AR/MR Waveguide Revenue Market Share by Manufacturer in 2025
Figure 34. Producer Shipments of Glass Substrate for AR/MR Waveguide by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 35. Top 3 Glass Substrate for AR/MR Waveguide Manufacturer (Revenue) Market Share in 2025
Figure 36. Top 6 Glass Substrate for AR/MR Waveguide Manufacturer (Revenue) Market Share in 2025
Figure 37. Global Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Region (2021-2032)
Figure 38. Global Glass Substrate for AR/MR Waveguide Consumption Value Market Share by Region (2021-2032)
Figure 39. North America Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 40. Europe Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 41. Asia-Pacific Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 42. South America Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 43. Middle East & Africa Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 44. Global Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Diameters (2021-2032)
Figure 45. Global Glass Substrate for AR/MR Waveguide Consumption Value Market Share by Diameters (2021-2032)
Figure 46. Global Glass Substrate for AR/MR Waveguide Average Price by Diameters

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(2021-2032) & (US$/Pcs)
Figure 47. Global Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Application (2021-2032)
Figure 48. Global Glass Substrate for AR/MR Waveguide Revenue Market Share by Application (2021-2032)
Figure 49. Global Glass Substrate for AR/MR Waveguide Average Price by Application (2021-2032) & (US$/Pcs)
Figure 50. North America Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Diameters (2021-2032)
Figure 51. North America Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Application (2021-2032)
Figure 52. North America Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Country (2021-2032)
Figure 53. North America Glass Substrate for AR/MR Waveguide Consumption Value Market Share by Country (2021-2032)
Figure 54. United States Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 55. Canada Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 56. Mexico Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 57. Europe Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Diameters (2021-2032)
Figure 58. Europe Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Application (2021-2032)
Figure 59. Europe Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Country (2021-2032)
Figure 60. Europe Glass Substrate for AR/MR Waveguide Consumption Value Market Share by Country (2021-2032)
Figure 61. Germany Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 62. France Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 63. United Kingdom Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 64. Russia Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 65. Italy Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)

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Figure 66. Asia-Pacific Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Diameters (2021-2032)
Figure 67. Asia-Pacific Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Application (2021-2032)
Figure 68. Asia-Pacific Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Region (2021-2032)
Figure 69. Asia-Pacific Glass Substrate for AR/MR Waveguide Consumption Value Market Share by Region (2021-2032)
Figure 70. China Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 71. Japan Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 72. South Korea Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 73. India Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 74. Southeast Asia Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 75. Australia Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 76. South America Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Diameters (2021-2032)
Figure 77. South America Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Application (2021-2032)
Figure 78. South America Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Country (2021-2032)
Figure 79. South America Glass Substrate for AR/MR Waveguide Consumption Value Market Share by Country (2021-2032)
Figure 80. Brazil Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 81. Argentina Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 82. Middle East & Africa Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Diameters (2021-2032)
Figure 83. Middle East & Africa Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Application (2021-2032)
Figure 84. Middle East & Africa Glass Substrate for AR/MR Waveguide Sales Quantity Market Share by Country (2021-2032)
Figure 85. Middle East & Africa Glass Substrate for AR/MR Waveguide Consumption

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Value Market Share by Country (2021-2032)
Figure 86. Turkey Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 87. Egypt Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 88. Saudi Arabia Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 89. South Africa Glass Substrate for AR/MR Waveguide Consumption Value (2021-2032) & (USD Million)
Figure 90. Glass Substrate for AR/MR Waveguide Market Drivers
Figure 91. Glass Substrate for AR/MR Waveguide Market Restraints
Figure 92. Glass Substrate for AR/MR Waveguide Market Trends
Figure 93. Porters Five Forces Analysis
Figure 94. Manufacturing Cost Structure Analysis of Glass Substrate for AR/MR Waveguide in 2025
Figure 95. Manufacturing Process Analysis of Glass Substrate for AR/MR Waveguide
Figure 96. Glass Substrate for AR/MR Waveguide Industrial Chain
Figure 97. Sales Channel: Direct to End-User vs Distributors
Figure 98. Direct Channel Pros & Cons
Figure 99. Indirect Channel Pros & Cons
Figure 100. Methodology
Figure 101. Research Process and Data Source

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