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Global Silicon Carbide AR Waveguides Market Growth 2026-2032

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Abstracts

The global Silicon Carbide AR Waveguides market size is predicted to grow from US$ 4.50 million in 2025 to US$ 135 million in 2032; it is expected to grow at a CAGR of 36.8% from 2026 to 2032.

Silicon Carbide AR Waveguides are advanced near-eye display optical components that use optical-grade silicon carbide as the primary light-guiding substrate and incorporate micro- and nano-scale optical structures to perform image in-coupling, propagation, pupil expansion, and out-coupling in augmented reality displays. Their high refractive index enables a larger optical ?tendue and supports wider fields of view while reducing the number of waveguide plates required, making SiC particularly attractive for thin, lightweight, large-FOV AR architectures. Current products are primarily based on diffractive waveguide designs, with direct-etched gratings and nanoimprint-assisted patterning and transfer representing important manufacturing routes. Commercial development is moving toward single-layer full-color configurations, higher optical efficiency, larger field of view, and wafer-level manufacturing. The market covered in this study focuses on functional SiC AR waveguide lenses and waveguide components that have completed the key optical microstructure fabrication process and can be integrated into AR display modules, with major applications including consumer AR glasses, enterprise and industrial AR systems, and defense and aerospace displays. Meta has demonstrated approximately 70° FOV using SiC waveguides, highlighting the material’s potential for large-FOV near-eye displays.

Key FindingsThe global average selling price of silicon carbide AR waveguides was approximately US$250–350 per piece in 2025.Direct etching is the primary technology route for high-performance, wide-FOV products.Consumer AR glasses represent the largest application market.China is the world’s leading region for commercial

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manufacturing.

Market Trends

The key technology trend is the transition from proving the optical advantages of SiC toward proving manufacturability and cost competitiveness. High refractive index is the core differentiator: compared with conventional high-index glass, SiC provides greater optical bandwidth and enables larger fields of view with fewer waveguide plates. This supports the development of single-layer full-color designs and can reduce optical stack thickness and alignment complexity. Large-FOV SiC products have already progressed from experimental prototypes toward 30° and 50° commercial-development platforms, while approximately 70° FOV has been demonstrated at the system level.

At the manufacturing level, the industry is shifting toward larger wafers, semiconductor-style lithography and etching, higher-throughput micro-nano replication, and tighter wafer-level process control. The transition from 4-inch toward 8-inch and eventually 300 mm substrates is particularly important because substrate utilization, lens yield per wafer, and process throughput directly affect unit economics. Optical-grade 300 mm SiC waveguide wafers were publicly demonstrated in 2025, indicating that upstream material suppliers are preparing for substantially larger AR volumes.

Market Dynamics

Drivers

Demand is primarily driven by the need to improve the optical performance and wearability of next-generation AR glasses. Wider FOV normally increases optical design difficulty, while conventional multi-layer waveguides add thickness, weight, alignment complexity, and manufacturing steps. SiC combines a refractive index of approximately 2.6–2.7 with strong thermal and mechanical properties, allowing designers to pursue large-FOV and potentially single-layer full-color architectures. Continued investment in AI glasses and spatial-computing hardware is also encouraging optical component suppliers to develop thinner, brighter, higher-efficiency waveguide solutions.

Restraints

The principal restraint remains cost. Optical-grade SiC requires demanding crystal-quality control, precision polishing, micro-nano patterning, difficult dry-etch processes, and stringent optical inspection. SiC is also an extremely hard material, increasing

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tooling requirements and process complexity. Early production remains sensitive to grating uniformity, optical defects, wafer utilization, and yield, while high-index glass and polymer-based waveguides continue to offer lower-cost alternatives for products that do not require the highest FOV or optical performance.

Opportunities

The largest opportunity lies in moving SiC from premium demonstration platforms into higher-volume consumer AR glasses. Scaling 8-inch production, introducing 300 mm optical-grade wafers, improving etching throughput, and increasing usable lens yield per wafer could materially reduce cost. Single-layer full-color architectures are particularly attractive because they may simplify downstream optical assembly and reduce stack alignment requirements. In addition, enterprise, industrial, defense, and aerospace AR systems offer opportunities where performance, environmental stability, durability, and thermal characteristics can justify a higher optical component price.

Challenges

The central challenge is achieving consumer-electronics economics without sacrificing optical performance. Yield improvement must occur simultaneously across substrate transparency and uniformity, microstructure fidelity, etching consistency, optical efficiency, color uniformity, rainbow suppression, and final lens inspection. The industry must also build manufacturing-grade equipment and process infrastructure rather than depend on research-grade tools. Rapid improvements in high-index glass, polymer waveguides, and other emerging high-refractive-index materials create an additional substitution risk if SiC cost reduction progresses more slowly than expected.

Industry Chain Analysis

The upstream industry chain consists of high-purity SiC raw materials, optical-grade crystal growth, wafer slicing, grinding, polishing, and optical-grade substrate inspection. Midstream manufacturing includes optical design, master fabrication, lithography or nanoimprint-assisted patterning, dry etching, coating, wafer-level inspection, dicing, packaging, and waveguide-module integration. Downstream customers include AR optical-module suppliers and AR glasses manufacturers serving consumer, enterprise, industrial, defense, and aerospace applications. Upstream wafer diameter and optical quality have become increasingly important variables: 8-inch production is moving into industrial deployment and 300 mm optical waveguide wafers have been demonstrated, creating a pathway toward greater lens output per wafer and lower unit material cost.

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Value Chain Analysis

Value creation is concentrated in three areas: optical-grade SiC material quality, proprietary waveguide and grating design, and high-yield micro-nano manufacturing. Although the substrate accounts for a meaningful portion of early-stage cost, competitive differentiation increasingly depends on optical efficiency, field of view, color uniformity, eyebox performance, ghost and rainbow suppression, manufacturing yield, and the ability to transfer designs into repeatable wafer-level production. As volume increases, the value chain is expected to shift from material scarcity and engineering samples toward process yield, equipment productivity, design-for-manufacturing, and module-level integration capability.

Segment Insights

By Waveguide Layer Architecture, the market is divided into Single-layer Waveguides and Multi-layer Waveguides. Single-layer architectures are becoming increasingly important for SiC because its high refractive index enables greater optical bandwidth and supports the integration of full-color functionality into fewer plates. By Grating Fabrication Route, the market is segmented into Direct Etched Waveguides, Nanoimprint-based Waveguides, and Others. Direct etching represents the principal high-performance route for sophisticated SiC structures, while nanoimprint-assisted processes offer potential advantages in pattern replication and manufacturing throughput.

By Display Color Capability, the market includes Monochrome Waveguides, Full-color Waveguides, and Others, with full-color products representing the main value-growth direction. By Field of View, the market is classified as ?30° FOV, >30° to 50° FOV, and >50° FOV. Commercial-development products are increasingly moving into the 30°–50° range, while >50° solutions represent a higher-specification segment. By Application, the market comprises Consumer AR Glasses, Enterprise and Industrial AR, Defense and Aerospace AR, and Others. Consumer AR glasses are expected to provide the largest incremental volume opportunity as SiC manufacturing costs decline.

Downstream Market Opportunities

Consumer AR glasses offer the strongest volume opportunity because SiC directly addresses several constraints that become more important as glasses evolve from notification-type displays toward richer spatial content: field of view, optical stack

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thickness, full-color capability, thermal management, and visual artifacts. Enterprise and industrial systems provide an earlier high-value opportunity where productivity benefits can support higher system prices, while defense and aerospace applications remain attractive for wide-FOV, durability, environmental stability, and mission-critical visibility requirements. The transition from optical prototypes to standardized waveguide-light-engine reference designs should also shorten product development cycles for downstream device manufacturers.

Regional Insights

China currently has the most concentrated commercial supply and manufacturing expansion for SiC AR waveguides, supported by a broad SiC substrate industry, wafer-level micro-nano processing capability, AR optical-component manufacturing, and a dense consumer-electronics supply chain. Specialized Chinese waveguide manufacturers are moving from small-batch development toward 8-inch wafer-level production, and upstream suppliers have already demonstrated 300 mm optical-grade SiC wafers. North America remains a critical technology-development region, particularly in SiC material selection, large-FOV architecture, direct slant-etch processing, and system-level AR validation. Europe, Japan, South Korea, and Taiwan possess strong optics, semiconductor, and AR component ecosystems, but publicly verified commercial SiC AR waveguide manufacturing remains less concentrated than in China and North America.

Competitive Landscape Analysis

The competitive landscape remains highly concentrated and technology-led because commercial SiC AR waveguide manufacturing requires simultaneous capabilities in optical design, semiconductor-grade micro-nano processing, difficult-material etching, wafer-level yield management, and AR module integration. China currently has the broadest merchant-supply cluster and the fastest visible capacity expansion, while North America retains a strong position in foundational optical architecture and captive high-performance development. Competition is therefore shifting from proof-of-concept performance toward repeatable mass production, yield, cost per lens, large-wafer compatibility, optical efficiency, and customer qualification. As the market matures, suppliers with vertically coordinated access to optical-grade SiC substrates, proprietary grating designs, wafer-level fabrication, inspection, and module integration are expected to hold stronger competitive positions.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Silicon Carbide AR Waveguides 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 Silicon Carbide AR Waveguides portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Silicon Carbide AR Waveguides market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Carbide AR Waveguides and breaks down the forecast by Field of View, 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 Silicon Carbide AR Waveguides.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Carbide AR Waveguides market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Field of View:

?30° FOV

>30° to 50° FOV

>50° FOV

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Segmentation by Grating Fabrication Route:

Direct Etched Waveguides

Nanoimprint-based Waveguides

Others

Segmentation by Display Color Capability:

Monochrome Waveguides

Full-color Waveguides

Others

Segmentation by Application:

Consumer AR Glasses

Enterprise and Industrial AR

Defense and Aerospace AR

Others

This report also splits the market by region:

Americas

United States

Canada

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- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey

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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.

SeeV Optoelectronics Technology Co., Ltd.

Goertek Optical Technology Co., Ltd.

Moldnano (Hangzhou) Technology Co., Ltd.

AAC Technologies Holdings Inc.

North Ocean Photonics Co., Ltd.

Magic Leap, Inc.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Carbide AR Waveguides market?

What factors are driving Silicon Carbide AR Waveguides market growth, globally and by region?

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

How do Silicon Carbide AR Waveguides market opportunities vary by end market size?

How does Silicon Carbide AR Waveguides break out by Field of View, by Application?

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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 Silicon Carbide AR Waveguides Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Silicon Carbide AR Waveguides by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Silicon Carbide AR Waveguides by Country/Region, 2021, 2025 & 2032
2.2 Silicon Carbide AR Waveguides Segment by Field of View
  2.2.1 ?30° FOV
  2.2.2 >30° to 50° FOV
  2.2.3 >50° FOV
  2.2.4 Silicon Carbide AR Waveguides Sales by Field of View
    2.2.4.1 Global Silicon Carbide AR Waveguides Sales Market Share by Field of View (2021-2026)
    2.2.4.2 Global Silicon Carbide AR Waveguides Revenue and Market Share by Field of View (2021-2026)
    2.2.4.3 Global Silicon Carbide AR Waveguides Sale Price by Field of View (2021-2026)
2.3 Silicon Carbide AR Waveguides Segment by Grating Fabrication Route
  2.3.1 Direct Etched Waveguides
  2.3.2 Nanoimprint-based Waveguides
  2.3.3 Others
  2.3.4 Silicon Carbide AR Waveguides Sales by Grating Fabrication Route
    2.3.4.1 Global Silicon Carbide AR Waveguides Sales Market Share by Grating Fabrication Route (2021-2026)

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2.3.4.2 Global Silicon Carbide AR Waveguides Revenue and Market Share by Grating Fabrication Route (2021-2026)
2.3.4.3 Global Silicon Carbide AR Waveguides Sale Price by Grating Fabrication Route (2021-2026)
2.4 Silicon Carbide AR Waveguides Segment by Display Color Capability
2.4.1 Monochrome Waveguides
2.4.2 Full-color Waveguides
2.4.3 Others
2.4.4 Silicon Carbide AR Waveguides Sales by Display Color Capability
2.4.4.1 Global Silicon Carbide AR Waveguides Sales Market Share by Display Color Capability (2021-2026)
2.4.4.2 Global Silicon Carbide AR Waveguides Revenue and Market Share by Display Color Capability (2021-2026)
2.4.4.3 Global Silicon Carbide AR Waveguides Sale Price by Display Color Capability (2021-2026)
2.5 Silicon Carbide AR Waveguides Segment by Application
2.5.1 Consumer AR Glasses
2.5.2 Enterprise and Industrial AR
2.5.3 Defense and Aerospace AR
2.5.4 Others
2.5.5 Silicon Carbide AR Waveguides Sales by Application
2.5.5.1 Global Silicon Carbide AR Waveguides Sale Market Share by Application (2021-2026)
2.5.5.2 Global Silicon Carbide AR Waveguides Revenue and Market Share by Application (2021-2026)
2.5.5.3 Global Silicon Carbide AR Waveguides Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Silicon Carbide AR Waveguides Breakdown Data by Company
3.1.1 Global Silicon Carbide AR Waveguides Annual Sales by Company (2021-2026)
3.1.2 Global Silicon Carbide AR Waveguides Sales Market Share by Company (2021-2026)
3.2 Global Silicon Carbide AR Waveguides Annual Revenue by Company (2021-2026)
3.2.1 Global Silicon Carbide AR Waveguides Revenue by Company (2021-2026)
3.2.2 Global Silicon Carbide AR Waveguides Revenue Market Share by Company (2021-2026)
3.3 Global Silicon Carbide AR Waveguides Sale Price by Company
3.4 Key Manufacturers Silicon Carbide AR Waveguides Producing Area Distribution,

+357 96 030922
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Sales Area, Product Type
3.4.1 Key Manufacturers Silicon Carbide AR Waveguides Product Location Distribution
3.4.2 Players Silicon Carbide AR Waveguides 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 SILICON CARBIDE AR WAVEGUIDES BY GEOGRAPHIC REGION

4.1 World Historic Silicon Carbide AR Waveguides Market Size by Geographic Region (2021-2026)
4.1.1 Global Silicon Carbide AR Waveguides Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Silicon Carbide AR Waveguides Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Silicon Carbide AR Waveguides Market Size by Country/Region (2021-2026)
4.2.1 Global Silicon Carbide AR Waveguides Annual Sales by Country/Region (2021-2026)
4.2.2 Global Silicon Carbide AR Waveguides Annual Revenue by Country/Region (2021-2026)
4.3 Americas Silicon Carbide AR Waveguides Sales Growth
4.4 APAC Silicon Carbide AR Waveguides Sales Growth
4.5 Europe Silicon Carbide AR Waveguides Sales Growth
4.6 Middle East & Africa Silicon Carbide AR Waveguides Sales Growth

5 AMERICAS

5.1 Americas Silicon Carbide AR Waveguides Sales by Country
5.1.1 Americas Silicon Carbide AR Waveguides Sales by Country (2021-2026)
5.1.2 Americas Silicon Carbide AR Waveguides Revenue by Country (2021-2026)
5.2 Americas Silicon Carbide AR Waveguides Sales by Field of View (2021-2026)
5.3 Americas Silicon Carbide AR Waveguides Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico

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5.7 Brazil

6 APAC

6.1 APAC Silicon Carbide AR Waveguides Sales by Region
  6.1.1 APAC Silicon Carbide AR Waveguides Sales by Region (2021-2026)
  6.1.2 APAC Silicon Carbide AR Waveguides Revenue by Region (2021-2026)
6.2 APAC Silicon Carbide AR Waveguides Sales by Field of View (2021-2026)
6.3 APAC Silicon Carbide AR Waveguides 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 Silicon Carbide AR Waveguides by Country
  7.1.1 Europe Silicon Carbide AR Waveguides Sales by Country (2021-2026)
  7.1.2 Europe Silicon Carbide AR Waveguides Revenue by Country (2021-2026)
7.2 Europe Silicon Carbide AR Waveguides Sales by Field of View (2021-2026)
7.3 Europe Silicon Carbide AR Waveguides 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 Silicon Carbide AR Waveguides by Country
  8.1.1 Middle East & Africa Silicon Carbide AR Waveguides Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Silicon Carbide AR Waveguides Revenue by Country (2021-2026)
8.2 Middle East & Africa Silicon Carbide AR Waveguides Sales by Field of View (2021-2026)

+357 96 030922
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8.3 Middle East & Africa Silicon Carbide AR Waveguides 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 Silicon Carbide AR Waveguides
10.3 Manufacturing Process Analysis of Silicon Carbide AR Waveguides
10.4 Industry Chain Structure of Silicon Carbide AR Waveguides

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Silicon Carbide AR Waveguides Distributors
11.3 Silicon Carbide AR Waveguides Customer

12 WORLD FORECAST REVIEW FOR SILICON CARBIDE AR WAVEGUIDES BY GEOGRAPHIC REGION

12.1 Global Silicon Carbide AR Waveguides Market Size Forecast by Region
  12.1.1 Global Silicon Carbide AR Waveguides Forecast by Region (2027-2032)
  12.1.2 Global Silicon Carbide AR Waveguides 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)

+357 96 030922
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12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Silicon Carbide AR Waveguides Forecast by Field of View (2027-2032)
12.7 Global Silicon Carbide AR Waveguides Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 SeeV Optoelectronics Technology Co., Ltd.
13.1.1 SeeV Optoelectronics Technology Co., Ltd. Company Information
13.1.2 SeeV Optoelectronics Technology Co., Ltd. Silicon Carbide AR Waveguides Product Portfolios and Specifications
13.1.3 SeeV Optoelectronics Technology Co., Ltd. Silicon Carbide AR Waveguides Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 SeeV Optoelectronics Technology Co., Ltd. Main Business Overview
13.1.5 SeeV Optoelectronics Technology Co., Ltd. Latest Developments
13.2 Goertek Optical Technology Co., Ltd.
13.2.1 Goertek Optical Technology Co., Ltd. Company Information
13.2.2 Goertek Optical Technology Co., Ltd. Silicon Carbide AR Waveguides Product Portfolios and Specifications
13.2.3 Goertek Optical Technology Co., Ltd. Silicon Carbide AR Waveguides Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Goertek Optical Technology Co., Ltd. Main Business Overview
13.2.5 Goertek Optical Technology Co., Ltd. Latest Developments
13.3 Moldnano (Hangzhou) Technology Co., Ltd.
13.3.1 Moldnano (Hangzhou) Technology Co., Ltd. Company Information
13.3.2 Moldnano (Hangzhou) Technology Co., Ltd. Silicon Carbide AR Waveguides Product Portfolios and Specifications
13.3.3 Moldnano (Hangzhou) Technology Co., Ltd. Silicon Carbide AR Waveguides Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Moldnano (Hangzhou) Technology Co., Ltd. Main Business Overview
13.3.5 Moldnano (Hangzhou) Technology Co., Ltd. Latest Developments
13.4 AAC Technologies Holdings Inc.
13.4.1 AAC Technologies Holdings Inc. Company Information
13.4.2 AAC Technologies Holdings Inc. Silicon Carbide AR Waveguides Product Portfolios and Specifications
13.4.3 AAC Technologies Holdings Inc. Silicon Carbide AR Waveguides Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 AAC Technologies Holdings Inc. Main Business Overview
13.4.5 AAC Technologies Holdings Inc. Latest Developments
13.5 North Ocean Photonics Co., Ltd.

+357 96 030922
info@marketpublishers.com

13.5.1 North Ocean Photonics Co., Ltd. Company Information
13.5.2 North Ocean Photonics Co., Ltd. Silicon Carbide AR Waveguides Product Portfolios and Specifications
13.5.3 North Ocean Photonics Co., Ltd. Silicon Carbide AR Waveguides Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 North Ocean Photonics Co., Ltd. Main Business Overview
13.5.5 North Ocean Photonics Co., Ltd. Latest Developments
13.6 Magic Leap, Inc.
13.6.1 Magic Leap, Inc. Company Information
13.6.2 Magic Leap, Inc. Silicon Carbide AR Waveguides Product Portfolios and Specifications
13.6.3 Magic Leap, Inc. Silicon Carbide AR Waveguides Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Magic Leap, Inc. Main Business Overview
13.6.5 Magic Leap, Inc. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Silicon Carbide AR Waveguides Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Silicon Carbide AR Waveguides Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of ?30° FOV
Table 4. Major Players of >30° to 50° FOV
Table 5. Major Players of >50° FOV
Table 6. Global Silicon Carbide AR Waveguides Sales by Field of View (2021-2026) & (K Pcs)
Table 7. Global Silicon Carbide AR Waveguides Sales Market Share by Field of View (2021-2026)
Table 8. Global Silicon Carbide AR Waveguides Revenue by Field of View (2021-2026) & ($ million)
Table 9. Global Silicon Carbide AR Waveguides Revenue Market Share by Field of View (2021-2026)
Table 10. Global Silicon Carbide AR Waveguides Sale Price by Field of View (2021-2026) & (US$/Pcs)
Table 11. Major Players of Direct Etched Waveguides
Table 12. Major Players of Nanoimprint-based Waveguides
Table 13. Major Players of Others
Table 14. Global Silicon Carbide AR Waveguides Sales by Grating Fabrication Route (2021-2026) & (K Pcs)
Table 15. Global Silicon Carbide AR Waveguides Sales Market Share by Grating Fabrication Route (2021-2026)
Table 16. Global Silicon Carbide AR Waveguides Revenue by Grating Fabrication Route (2021-2026) & ($ million)
Table 17. Global Silicon Carbide AR Waveguides Revenue Market Share by Grating Fabrication Route (2021-2026)
Table 18. Global Silicon Carbide AR Waveguides Sale Price by Grating Fabrication Route (2021-2026) & (US$/Pcs)
Table 19. Major Players of Monochrome Waveguides
Table 20. Major Players of Full-color Waveguides
Table 21. Major Players of Others
Table 22. Global Silicon Carbide AR Waveguides Sales by Display Color Capability (2021-2026) & (K Pcs)

+357 96 030922
info@marketpublishers.com

Table 23. Global Silicon Carbide AR Waveguides Sales Market Share by Display Color Capability (2021-2026)
Table 24. Global Silicon Carbide AR Waveguides Revenue by Display Color Capability (2021-2026) & ($ million)
Table 25. Global Silicon Carbide AR Waveguides Revenue Market Share by Display Color Capability (2021-2026)
Table 26. Global Silicon Carbide AR Waveguides Sale Price by Display Color Capability (2021-2026) & (US$/Pcs)
Table 27. Global Silicon Carbide AR Waveguides Sale by Application (2021-2026) & (K Pcs)
Table 28. Global Silicon Carbide AR Waveguides Sale Market Share by Application (2021-2026)
Table 29. Global Silicon Carbide AR Waveguides Revenue by Application (2021-2026) & ($ million)
Table 30. Global Silicon Carbide AR Waveguides Revenue Market Share by Application (2021-2026)
Table 31. Global Silicon Carbide AR Waveguides Sale Price by Application (2021-2026) & (US$/Pcs)
Table 32. Global Silicon Carbide AR Waveguides Sales by Company (2021-2026) & (K Pcs)
Table 33. Global Silicon Carbide AR Waveguides Sales Market Share by Company (2021-2026)
Table 34. Global Silicon Carbide AR Waveguides Revenue by Company (2021-2026) & ($ millions)
Table 35. Global Silicon Carbide AR Waveguides Revenue Market Share by Company (2021-2026)
Table 36. Global Silicon Carbide AR Waveguides Sale Price by Company (2021-2026) & (US$/Pcs)
Table 37. Key Manufacturers Silicon Carbide AR Waveguides Producing Area Distribution and Sales Area
Table 38. Players Silicon Carbide AR Waveguides Products Offered
Table 39. Silicon Carbide AR Waveguides 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 Silicon Carbide AR Waveguides Sales by Geographic Region (2021-2026) & (K Pcs)
Table 43. Global Silicon Carbide AR Waveguides Sales Market Share Geographic Region (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 44. Global Silicon Carbide AR Waveguides Revenue by Geographic Region (2021-2026) & ($ millions)
Table 45. Global Silicon Carbide AR Waveguides Revenue Market Share by Geographic Region (2021-2026)
Table 46. Global Silicon Carbide AR Waveguides Sales by Country/Region (2021-2026) & (K Pcs)
Table 47. Global Silicon Carbide AR Waveguides Sales Market Share by Country/Region (2021-2026)
Table 48. Global Silicon Carbide AR Waveguides Revenue by Country/Region (2021-2026) & ($ millions)
Table 49. Global Silicon Carbide AR Waveguides Revenue Market Share by Country/Region (2021-2026)
Table 50. Americas Silicon Carbide AR Waveguides Sales by Country (2021-2026) & (K Pcs)
Table 51. Americas Silicon Carbide AR Waveguides Sales Market Share by Country (2021-2026)
Table 52. Americas Silicon Carbide AR Waveguides Revenue by Country (2021-2026) & ($ millions)
Table 53. Americas Silicon Carbide AR Waveguides Sales by Field of View (2021-2026) & (K Pcs)
Table 54. Americas Silicon Carbide AR Waveguides Sales by Application (2021-2026) & (K Pcs)
Table 55. APAC Silicon Carbide AR Waveguides Sales by Region (2021-2026) & (K Pcs)
Table 56. APAC Silicon Carbide AR Waveguides Sales Market Share by Region (2021-2026)
Table 57. APAC Silicon Carbide AR Waveguides Revenue by Region (2021-2026) & ($ millions)
Table 58. APAC Silicon Carbide AR Waveguides Sales by Field of View (2021-2026) & (K Pcs)
Table 59. APAC Silicon Carbide AR Waveguides Sales by Application (2021-2026) & (K Pcs)
Table 60. Europe Silicon Carbide AR Waveguides Sales by Country (2021-2026) & (K Pcs)
Table 61. Europe Silicon Carbide AR Waveguides Revenue by Country (2021-2026) & ($ millions)
Table 62. Europe Silicon Carbide AR Waveguides Sales by Field of View (2021-2026) & (K Pcs)
Table 63. Europe Silicon Carbide AR Waveguides Sales by Application (2021-2026) &

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(K Pcs)
Table 64. Middle East & Africa Silicon Carbide AR Waveguides Sales by Country (2021-2026) & (K Pcs)
Table 65. Middle East & Africa Silicon Carbide AR Waveguides Revenue Market Share by Country (2021-2026)
Table 66. Middle East & Africa Silicon Carbide AR Waveguides Sales by Field of View (2021-2026) & (K Pcs)
Table 67. Middle East & Africa Silicon Carbide AR Waveguides Sales by Application (2021-2026) & (K Pcs)
Table 68. Key Market Drivers & Growth Opportunities of Silicon Carbide AR Waveguides
Table 69. Key Market Challenges & Risks of Silicon Carbide AR Waveguides
Table 70. Key Industry Trends of Silicon Carbide AR Waveguides
Table 71. Silicon Carbide AR Waveguides Raw Material
Table 72. Key Suppliers of Raw Materials
Table 73. Silicon Carbide AR Waveguides Distributors List
Table 74. Silicon Carbide AR Waveguides Customer List
Table 75. Global Silicon Carbide AR Waveguides Sales Forecast by Region (2027-2032) & (K Pcs)
Table 76. Global Silicon Carbide AR Waveguides Revenue Forecast by Region (2027-2032) & ($ millions)
Table 77. Americas Silicon Carbide AR Waveguides Sales Forecast by Country (2027-2032) & (K Pcs)
Table 78. Americas Silicon Carbide AR Waveguides Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 79. APAC Silicon Carbide AR Waveguides Sales Forecast by Region (2027-2032) & (K Pcs)
Table 80. APAC Silicon Carbide AR Waveguides Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 81. Europe Silicon Carbide AR Waveguides Sales Forecast by Country (2027-2032) & (K Pcs)
Table 82. Europe Silicon Carbide AR Waveguides Revenue Forecast by Country (2027-2032) & ($ millions)
Table 83. Middle East & Africa Silicon Carbide AR Waveguides Sales Forecast by Country (2027-2032) & (K Pcs)
Table 84. Middle East & Africa Silicon Carbide AR Waveguides Revenue Forecast by Country (2027-2032) & ($ millions)
Table 85. Global Silicon Carbide AR Waveguides Sales Forecast by Field of View (2027-2032) & (K Pcs)

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Table 86. Global Silicon Carbide AR Waveguides Revenue Forecast by Field of View (2027-2032) & ($ millions)
Table 87. Global Silicon Carbide AR Waveguides Sales Forecast by Application (2027-2032) & (K Pcs)
Table 88. Global Silicon Carbide AR Waveguides Revenue Forecast by Application (2027-2032) & ($ millions)
Table 89. SeeV Optoelectronics Technology Co., Ltd. Basic Information, Silicon Carbide AR Waveguides Manufacturing Base, Sales Area and Its Competitors
Table 90. SeeV Optoelectronics Technology Co., Ltd. Silicon Carbide AR Waveguides Product Portfolios and Specifications
Table 91. SeeV Optoelectronics Technology Co., Ltd. Silicon Carbide AR Waveguides Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 92. SeeV Optoelectronics Technology Co., Ltd. Main Business
Table 93. SeeV Optoelectronics Technology Co., Ltd. Latest Developments
Table 94. Goertek Optical Technology Co., Ltd. Basic Information, Silicon Carbide AR Waveguides Manufacturing Base, Sales Area and Its Competitors
Table 95. Goertek Optical Technology Co., Ltd. Silicon Carbide AR Waveguides Product Portfolios and Specifications
Table 96. Goertek Optical Technology Co., Ltd. Silicon Carbide AR Waveguides Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 97. Goertek Optical Technology Co., Ltd. Main Business
Table 98. Goertek Optical Technology Co., Ltd. Latest Developments
Table 99. Moldnano (Hangzhou) Technology Co., Ltd. Basic Information, Silicon Carbide AR Waveguides Manufacturing Base, Sales Area and Its Competitors
Table 100. Moldnano (Hangzhou) Technology Co., Ltd. Silicon Carbide AR Waveguides Product Portfolios and Specifications
Table 101. Moldnano (Hangzhou) Technology Co., Ltd. Silicon Carbide AR Waveguides Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 102. Moldnano (Hangzhou) Technology Co., Ltd. Main Business
Table 103. Moldnano (Hangzhou) Technology Co., Ltd. Latest Developments
Table 104. AAC Technologies Holdings Inc. Basic Information, Silicon Carbide AR Waveguides Manufacturing Base, Sales Area and Its Competitors
Table 105. AAC Technologies Holdings Inc. Silicon Carbide AR Waveguides Product Portfolios and Specifications
Table 106. AAC Technologies Holdings Inc. Silicon Carbide AR Waveguides Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 107. AAC Technologies Holdings Inc. Main Business
Table 108. AAC Technologies Holdings Inc. Latest Developments
Table 109. North Ocean Photonics Co., Ltd. Basic Information, Silicon Carbide AR

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Waveguides Manufacturing Base, Sales Area and Its Competitors
Table 110. North Ocean Photonics Co., Ltd. Silicon Carbide AR Waveguides Product Portfolios and Specifications
Table 111. North Ocean Photonics Co., Ltd. Silicon Carbide AR Waveguides Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 112. North Ocean Photonics Co., Ltd. Main Business
Table 113. North Ocean Photonics Co., Ltd. Latest Developments
Table 114. Magic Leap, Inc. Basic Information, Silicon Carbide AR Waveguides Manufacturing Base, Sales Area and Its Competitors
Table 115. Magic Leap, Inc. Silicon Carbide AR Waveguides Product Portfolios and Specifications
Table 116. Magic Leap, Inc. Silicon Carbide AR Waveguides Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 117. Magic Leap, Inc. Main Business
Table 118. Magic Leap, Inc. Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Silicon Carbide AR Waveguides
Figure 2. Silicon Carbide AR Waveguides Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Silicon Carbide AR Waveguides Sales Growth Rate 2021-2032 (K Pcs)
Figure 7. Global Silicon Carbide AR Waveguides Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Silicon Carbide AR Waveguides Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Silicon Carbide AR Waveguides Sales Market Share by Country/Region (2025)
Figure 10. Silicon Carbide AR Waveguides Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of ?30° FOV
Figure 12. Product Picture of >30° to 50° FOV
Figure 13. Product Picture of >50° FOV
Figure 14. Global Silicon Carbide AR Waveguides Sales Market Share by Field of View in 2026
Figure 15. Global Silicon Carbide AR Waveguides Revenue Market Share by Field of View (2021-2026)
Figure 16. Product Picture of Direct Etched Waveguides
Figure 17. Product Picture of Nanoimprint-based Waveguides
Figure 18. Product Picture of Others
Figure 19. Global Silicon Carbide AR Waveguides Sales Market Share by Grating Fabrication Route in 2026
Figure 20. Global Silicon Carbide AR Waveguides Revenue Market Share by Grating Fabrication Route (2021-2026)
Figure 21. Product Picture of Monochrome Waveguides
Figure 22. Product Picture of Full-color Waveguides
Figure 23. Product Picture of Others
Figure 24. Global Silicon Carbide AR Waveguides Sales Market Share by Display Color Capability in 2026
Figure 25. Global Silicon Carbide AR Waveguides Revenue Market Share by Display Color Capability (2021-2026)

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Figure 26. Silicon Carbide AR Waveguides Consumed in Consumer AR Glasses
Figure 27. Global Silicon Carbide AR Waveguides Market: Consumer AR Glasses (2021-2026) & (K Pcs)
Figure 28. Silicon Carbide AR Waveguides Consumed in Enterprise and Industrial AR
Figure 29. Global Silicon Carbide AR Waveguides Market: Enterprise and Industrial AR (2021-2026) & (K Pcs)
Figure 30. Silicon Carbide AR Waveguides Consumed in Defense and Aerospace AR
Figure 31. Global Silicon Carbide AR Waveguides Market: Defense and Aerospace AR (2021-2026) & (K Pcs)
Figure 32. Silicon Carbide AR Waveguides Consumed in Others
Figure 33. Global Silicon Carbide AR Waveguides Market: Others (2021-2026) & (K Pcs)
Figure 34. Global Silicon Carbide AR Waveguides Sale Market Share by Application (2025)
Figure 35. Global Silicon Carbide AR Waveguides Revenue Market Share by Application in 2025
Figure 36. Silicon Carbide AR Waveguides Sales by Company in 2025 (K Pcs)
Figure 37. Global Silicon Carbide AR Waveguides Sales Market Share by Company in 2025
Figure 38. Silicon Carbide AR Waveguides Revenue by Company in 2025 ($ millions)
Figure 39. Global Silicon Carbide AR Waveguides Revenue Market Share by Company in 2025
Figure 40. Global Silicon Carbide AR Waveguides Sales Market Share by Geographic Region (2021-2026)
Figure 41. Global Silicon Carbide AR Waveguides Revenue Market Share by Geographic Region in 2025
Figure 42. Americas Silicon Carbide AR Waveguides Sales 2021-2026 (K Pcs)
Figure 43. Americas Silicon Carbide AR Waveguides Revenue 2021-2026 ($ millions)
Figure 44. APAC Silicon Carbide AR Waveguides Sales 2021-2026 (K Pcs)
Figure 45. APAC Silicon Carbide AR Waveguides Revenue 2021-2026 ($ millions)
Figure 46. Europe Silicon Carbide AR Waveguides Sales 2021-2026 (K Pcs)
Figure 47. Europe Silicon Carbide AR Waveguides Revenue 2021-2026 ($ millions)
Figure 48. Middle East & Africa Silicon Carbide AR Waveguides Sales 2021-2026 (K Pcs)
Figure 49. Middle East & Africa Silicon Carbide AR Waveguides Revenue 2021-2026 ($ millions)
Figure 50. Americas Silicon Carbide AR Waveguides Sales Market Share by Country in 2025
Figure 51. Americas Silicon Carbide AR Waveguides Revenue Market Share by

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Country (2021-2026)
Figure 52. Americas Silicon Carbide AR Waveguides Sales Market Share by Field of View (2021-2026)
Figure 53. Americas Silicon Carbide AR Waveguides Sales Market Share by Application (2021-2026)
Figure 54. United States Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 55. Canada Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 56. Mexico Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 57. Brazil Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 58. APAC Silicon Carbide AR Waveguides Sales Market Share by Region in 2025
Figure 59. APAC Silicon Carbide AR Waveguides Revenue Market Share by Region (2021-2026)
Figure 60. APAC Silicon Carbide AR Waveguides Sales Market Share by Field of View (2021-2026)
Figure 61. APAC Silicon Carbide AR Waveguides Sales Market Share by Application (2021-2026)
Figure 62. China Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 63. Japan Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 64. South Korea Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 65. Southeast Asia Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 66. India Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 67. Australia Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 68. China Taiwan Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 69. Europe Silicon Carbide AR Waveguides Sales Market Share by Country in 2025
Figure 70. Europe Silicon Carbide AR Waveguides Revenue Market Share by Country (2021-2026)

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Figure 71. Europe Silicon Carbide AR Waveguides Sales Market Share by Field of View (2021-2026)
Figure 72. Europe Silicon Carbide AR Waveguides Sales Market Share by Application (2021-2026)
Figure 73. Germany Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 74. France Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 75. UK Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 76. Italy Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 77. Russia Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 78. Middle East & Africa Silicon Carbide AR Waveguides Sales Market Share by Country (2021-2026)
Figure 79. Middle East & Africa Silicon Carbide AR Waveguides Sales Market Share by Field of View (2021-2026)
Figure 80. Middle East & Africa Silicon Carbide AR Waveguides Sales Market Share by Application (2021-2026)
Figure 81. Egypt Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 82. South Africa Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 83. Israel Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 84. Turkey Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 85. GCC Countries Silicon Carbide AR Waveguides Revenue Growth 2021-2026 ($ millions)
Figure 86. Manufacturing Cost Structure Analysis of Silicon Carbide AR Waveguides in 2026
Figure 87. Manufacturing Process Analysis of Silicon Carbide AR Waveguides
Figure 88. Industry Chain Structure of Silicon Carbide AR Waveguides
Figure 89. Channels of Distribution
Figure 90. Global Silicon Carbide AR Waveguides Sales Market Forecast by Region (2027-2032)
Figure 91. Global Silicon Carbide AR Waveguides Revenue Market Share Forecast by Region (2027-2032)
Figure 92. Global Silicon Carbide AR Waveguides Sales Market Share Forecast by

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Field of View (2027-2032)
Figure 93. Global Silicon Carbide AR Waveguides Revenue Market Share Forecast by Field of View (2027-2032)
Figure 94. Global Silicon Carbide AR Waveguides Sales Market Share Forecast by Application (2027-2032)
Figure 95. Global Silicon Carbide AR Waveguides Revenue Market Share Forecast by Application (2027-2032)

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