

Smart Glass - Company Evaluation Report, 2025

<https://marketpublishers.com/r/S6D333770980EN.html>

Date: June 2025

Pages: 106

Price: US\$ 2,650.00 (Single User License)

ID: S6D333770980EN

Abstracts

The Smart Glass Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for Smart Glass. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and emerging trends shaping the industry. MarketsandMarkets 360 Quadrants evaluated over 100 companies, of which the Top 28 Smart Glass Companies were categorized and recognized as the quadrant leaders.

Smart glass, also referred to as switchable or dynamic glass, is a cutting-edge glazing technology capable of altering its light transmission properties in response to external stimuli such as electric current, heat, or light. This functionality allows the glass to transition between transparent, translucent, or opaque states, enabling enhanced control over privacy, lighting, and temperature. Smart glass is widely utilized in applications including energy-efficient buildings, automotive glazing, and digital displays. Key technologies that drive smart glass functionality include electrochromic, photochromic, thermochromic, suspended particle devices (SPD), and liquid crystal systems. Its energy-saving potential and user-adjustable features position smart glass as a pivotal component in contemporary architectural and technological advancements. The smart glass market is witnessing robust growth, fueled by the rising need for energy-efficient solutions in sustainable construction and green buildings, bolstered by strict environmental standards. Technologies such as electrochromic and SPD smart glass are gaining momentum for their dynamic capabilities in regulating light and heat. Within the automotive sector, smart glass is increasingly being used in sunroofs, windows, and mirrors to elevate comfort and design aesthetics. Additionally, integration into smart home environments for automated privacy and lighting functions is accelerating adoption. With growing applications in consumer electronics, declining production costs, and continuous R&D innovation, the smart glass market is expanding across diverse industries.

The 360 Quadrant maps the Smart Glass companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the Smart Glass quadrant. The top criteria for product footprint evaluation included By TYPE (Tinted, Coated, Hybrid), By CONTROL SYSTEM (Switch-Based, Remote Monitoring, Mobile-Based, Voice-Based, Building Automation System, Other Control Systems), By MECHANISM (Active, Passive), By TECHNOLOGY (Electrochromic, Suspended Particle Display (SPD), Liquid Crystal (LC), Photochromic, Thermochromic, Micro-Blinds, Other Technologies), and By END USE (Architecture, Transportation, Power Generation Plants, Other End Uses).

Key Players

Key players in the Smart Glass market include major global corporations and specialized innovators such as SAINT-GOBAIN, AGC INC., GENTEX CORPORATION, CORNING INCORPORATED, NIPPON SHEET GLASS CO., LTD, VIEW INC., GAUZY LTD AND ENTITIES, XINYI GLASS HOLDINGS LIMITED, RESEARCH FRONTIERS, DIAMOND SWITCHABLE GLASS LTD, PLEOTINT LLC, TAIWAN GLASS IND. CORP., FUYAO GROUP, CENTRAL GLASS CO., LTD., CHROMOGENICS, RAVENWINDOW, POLYTRONIX, INC., PGW AUTO GLASS, LLC, AGP GROUP, SPD CONTROL SYSTEMS CORPORATION, SCIENSTRY, INC., INNOVATIVE GLASS CORP., HALIO, INC., MIRU SMART TECHNOLOGIES, MERCK KGAA, HUICHI INDUSTRIAL DEVELOPMENT CO.,LTD, PRO DISPLAY, and SKYLINE DESIGN. These companies are actively investing in research and development, forming strategic partnerships, and engaging in collaborative initiatives to drive innovation, expand their global footprint, and maintain a competitive edge in this rapidly evolving market.

Top Three Companies Analysis

Saint-Gobain

Saint-Gobain is a major contender in light and sustainable construction, offering a wide range of products, including smart glass under the Sage Glass brand. The company emphasizes sustainable solutions and operates across various regions, including the Americas, Europe, and Asia. With its extensive product portfolio and research capabilities, Saint-Gobain maintains a competitive market share by leveraging its geographic reach and continuous innovation.

AGC Inc.

AGC Inc. stands out as a leader in the smart glass sector, focusing on architectural and automotive glass segments. The company is known for its high-tech glass for advanced mobility and its strategic focus on environmental solutions. AGC Inc. benefits from a strong presence in Asia and globally, emphasizing innovation to meet market demands and strengthen its market positioning.

Gentex Corporation

Gentex Corporation, primarily servicing the automotive industry, has built its market position on partnerships and advanced technology integration. It leverages a strong North American presence to manufacture and innovate in smart glass technology, contributing significantly to its growing market share. Gentex's strategy includes expanding its product portfolio and strengthening partnerships to enhance its industry standing.

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