

Smart Glass Market Report by Technology (Thermochromic, Photochromic, Electrochromic, Suspended Particle Device (SPD), Polymer Disperse Liquid Crystal (PDLC), and Others), Control Mode (Dimmers, Switches, Remote Control, and Others), Application (Architectural, Transportation, Consumer Electronics, Power Generation), and Region 2024-2032

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Abstracts

The global smart glass market size reached US\$ 6.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 14.8 Billion by 2032, exhibiting a growth rate (CAGR) of 9.9% during 2024-2032.

Smart glass is a superior-grade glazing glass that is manufactured by arranging and laminating switchable acrylic polycarbonate films. These layers include liquid crystals that filter the level of brightness, heat, and voltage entering through lenses. Smart glass provides instant privacy and enough natural light, prevents ultraviolet (UV) radiations, reduces glare, allows easy cleaning, and enhances the aesthetic appearance of the infrastructure. Along with this, it is secured, easy to install, aesthetically appealing, and requires minimal operational costs; therefore, it is used as electrochromic and envelope glass across various power generation and commercial buildings. Currently, smart glass is available in varying technologies, including thermochromic, photochromic, and suspended particle devices (SPD).

Smart Glass Market Trends:

One of the key factors driving the market growth is the ongoing construction activities and the increasing infrastructural projects, which, in turn, have facilitated the widespread installation of smart glass in various residential and commercial complexes.

Such products exhibit energy-saving capacity, which further helps reduce the energy consumption on heating, ventilation, and air conditioning (HVAC) systems. In line with this, the implementation of various green building initiatives by governments, owing to the rising environmental concerns, has further supplemented the product demand to reduce overall carbon footprints. Additionally, considerable expansion in the automotive industry and the escalating need for luxurious vehicles have prompted manufacturers to incorporate smart glass in sun visors, sunroofs, windshields, and rear-view mirrors, which is contributing to the market growth. Moreover, the extensive utilization of suspended particle devices (SPD) glass in the aerospace industry to offer improved aircraft performance, acoustic insulation, and superior heat rejection is impelling the market growth. Apart from this, the advent of floor-to-ceiling glass windows and the uptake of three-dimensional (3D) designs prepositions to ensure optimum thermal insulation are creating a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global smart glass market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on technology, control mode and application.

Breakup by Technology:

- Thermochromic
- Photochromic
- Electrochromic
- Suspended Particle Device (SPD)
- Polymer Disperse Liquid Crystal (PDLC)
- Others

Breakup by Control Mode:

- Dimmers
- Switches
- Remote Control
- Others

Breakup by Application:

- Architectural

Transportation
Consumer Electronics
Power Generation

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being AGC Inc., Asahi India Glass Limited, ChromoGenics AB, Compagnie de Saint-Gobain S.A., Diamond Glass Limited, Gauzy Ltd, Gentex Corporation, Halio Inc., Polytronix Inc., Research Frontiers Inc. and View Inc.

Key Questions Answered in This Report

1. What was the size of the global smart glass market in 2023?
2. What is the expected growth rate of the global smart glass market during 2024-2032?
3. What are the key factors driving the global smart glass market?
4. What has been the impact of COVID-19 on the global smart glass market?
5. What is the breakup of the global smart glass market based on the technology?
6. What is the breakup of the global smart glass market based on the application?
7. What are the key regions in the global smart glass market?
8. Who are the key players/companies in the global smart glass market?

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