Gauzy is a world leading vendor of material science and nanotechnology, focused on the research, development, manufacturing, and marketing of LCG® (Light Control Glass) technologies that are applied to transparent raw materials.

We are big enough to deliver and small enough to care.

Gauzy’s global distribution network of over 50 certified partners provides LCG® to customers in over 40 countries. Our SPD and Liquid Crystal technologies provide light control solutions in diverse industries.
Gauzy, the true pioneer of nanotechnology for light control, is the only material science company in the world developing, manufacturing, and marketing two of the three active light control technologies: SPD and Liquid Crystal.

Our technology bridges the gap between science and our everyday lives as we pair our chemistry with static transparent materials. Every window, from cars to buildings, is redefined by Gauzy.

We are: The innovators. The creators. The thinkers. The scientists. The people touching your lives and making you experience your life differently: through light.
Technology

LCG® (light control glass) technology developed by Gauzy allows glass to change from transparent to varying degrees of opaque on demand for privacy, custom shading, solar control, and transparent displays in the spaces where you spend your time most.

Gauzy synthesizes and combines materials from the molecular level, creating LC formulas, SPD emulsions, and mechanical HW, for fully optimized and continuously improved end.
Gauzy’s LCG® technology consists of specially combined SPD emulsions or Liquid Crystal formulations that are coated between two sheets of PET-ITO, and then UV cured, creating a single film.

These carefully curated films are then laminated into or retrofitted onto glass or other transparent materials (like polycarbonate) by our global partners, making LCG® (light control glass).

Application

Laminated RetroFit
Production

Custom roll-to-roll manufacturing lines for LC and SPD are located in both Israel and Germany. Combining principles of Israeli innovation and German precision, Gauzy is committed to producing and delivering the next generation of light control films, controllers, and quality verification tools.

Our production process employs advanced techniques superseding existing commercial methods resulting in:

- Faster and fuller product curing
- Efficient product scale-up
- Higher capacity and yield
- Max. roll width of 1.8m
- Wide range of product offerings on one line
Our Science, Your Space

Automotive
Ride in comfort with shaded and temperature controlled interiors

Offices
Dynamic glass partitions for agile spaces and office layout

Hotels
Optimize space with a high-tech design that guests will talk about

Retail
Storefront polite advertising without blocking merchandise

Residential
Make homes even smarter with LCG® windows and appliances

Healthcare
Preserve private moments in a sterile environment
Liquid Crystal Films

Gauzy offers a diverse portfolio of indoor and outdoor LC based films, available in both Retrofit and Laminated applications, with a maximum width of 1.8m. These films allow glass or polycarbonate to switch from transparent to varying levels of opaque, on demand.

Our products are defined by ultra high clarity, low energy consumption, high light transmittance, and fast switching times, supporting premium performance. All products can be dimmed with Gauzy’s patented controllers.
Gauzy SPD blocks 99% of light for dynamic solar and energy control in automotive and architectural applications, allowing windows to be dimmed and shaded without blocking views to the outside.

We are one of only two companies in the world with the ability to manufacture this technology, and the only company offering multiple grades with custom sizes and shapes.

Gauzy is a strategic investor and major shareholder in Research Frontiers (NASDAQ: REFR) the inventors of SPD smart films.

**Automotive**
Shade and block glare with SPD sunroofs, sun visors, and windows while saving material costs, space, and protecting interiors

**Planes & Trains**
Allow passengers to choose how they experience natural light, while still being able to enjoy outside scenery and natural views

**Marine**
Enjoy ocean and sky views without strong light reflection, glare, and heat with smart glass in cabin, bridge, and deck windows

**Skylight & Facades**
Replace complex shading systems allow for natural light, views, and sleek designs while being environmentally conscious
Controllers

Gauzy’s patented LC and SPD LCG® controllers employ unique squarewaves, ensuring the highest quality optical and mechanical performance for our films.

The Flex Controller is offered with on/off or dimming features. It supports WIFI/DMX/RS-485 and drives up to 10m² with a small footprint, while using minimal energy for high ROI.

The MultiPlex Controller can be customized to include up to 32 outputs, allowing independent control over multiple glass panels or LCG® segments (Pixel Patterned film).

The Mini Controller is ideal for smaller LCG® installations of up to 4m² and has on/off or fading configurations.

The Flex, MultiPlex, and Mini Controllers are all available for Gauzy’s SPD technology, ensuring a custom shading experience.
Professional Tools

Gauzy’s partners receive a suite of professional tools that support onsite and in-field quality verification, ensuring all properties of LCG® are performing before, during, and after lamination and installation. We also offer sales and marketing support with special tools that demonstrate our products unique capabilities.
# Gauzy IP Strategy

**Patent/Utility Model Applications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Submitted In</th>
<th>Type</th>
<th>Current Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimmer and Switch Suitable for Driving a Capacitive or Complex Capacitive-Resistive Load Such As Liquid Crystal Film</td>
<td>US</td>
<td>FP</td>
<td>Granted</td>
</tr>
<tr>
<td></td>
<td>EU</td>
<td>FP</td>
<td>National Phase Under examination</td>
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<tr>
<td></td>
<td>Brazil</td>
<td>FP</td>
<td>National Phase Under examination</td>
</tr>
<tr>
<td></td>
<td>China</td>
<td>FP</td>
<td>Granted</td>
</tr>
<tr>
<td></td>
<td>India</td>
<td>FP</td>
<td>National Phase waiting examination</td>
</tr>
<tr>
<td></td>
<td>Israel</td>
<td>FP</td>
<td>National Phase Under examination</td>
</tr>
<tr>
<td>Means and methods for superimposing at least one first projected image over at least one second real image</td>
<td>Germany</td>
<td>UM</td>
<td>Granted</td>
</tr>
<tr>
<td></td>
<td>Japan</td>
<td>UM</td>
<td>Granted</td>
</tr>
<tr>
<td></td>
<td>Israel</td>
<td>FP</td>
<td>In progress waiting examination</td>
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<tr>
<td>Device for producing and testing electrical switchable glasses and method of doing the same</td>
<td>US</td>
<td>FP</td>
<td>Granted</td>
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<tr>
<td></td>
<td>EU</td>
<td>FP</td>
<td>National Phase</td>
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<tr>
<td></td>
<td>China</td>
<td>FP</td>
<td>Granted</td>
</tr>
<tr>
<td>Dynamic signage, glazed and patterned PDLC devices and methods for creating thereof</td>
<td>US</td>
<td>FP</td>
<td>National Phase</td>
</tr>
<tr>
<td>Metal organic liquid crystals dyes</td>
<td>US</td>
<td>FP</td>
<td>National Phase</td>
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<tr>
<td></td>
<td>EU</td>
<td>FP</td>
<td>National Phase</td>
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<tr>
<td></td>
<td>China</td>
<td>FP</td>
<td>National Phase</td>
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<tr>
<td>Bi-stable liquid crystal film comprising metalorganic mesogens and application thereof</td>
<td>US</td>
<td>FP</td>
<td>National Phase</td>
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<tr>
<td></td>
<td>EU</td>
<td>FP</td>
<td>Granted</td>
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<tr>
<td></td>
<td>China</td>
<td>FP</td>
<td>National Phase</td>
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<tr>
<td>Electrically switchable solar controlled absorbing reflecting film</td>
<td>US</td>
<td>FP</td>
<td>National Phase</td>
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<tr>
<td></td>
<td>EU</td>
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<tr>
<td></td>
<td>China</td>
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</table>

FP – Full Patent | UM – Utility Model | TM - Trademark
<table>
<thead>
<tr>
<th>Description</th>
<th>Submitted In</th>
<th>Type</th>
<th>Current Status</th>
</tr>
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<tbody>
<tr>
<td>Advanced polymer dispersed liquid crystal (PDLC) for display projection</td>
<td>US</td>
<td>FP</td>
<td>National Phase</td>
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<tr>
<td>screens</td>
<td>EU</td>
<td>FP</td>
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<td></td>
<td>China</td>
<td>FP</td>
<td>National Phase</td>
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<tr>
<td>Multiple and single layers liquid crystal dispersion devices for common</td>
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<td>National Phase</td>
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<td>and direct glazing applications and methods thereof</td>
<td>EU</td>
<td>FP</td>
<td>National Phase</td>
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<td></td>
<td>China</td>
<td>FP</td>
<td>National Phase</td>
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<tr>
<td>Advanced Liquid Crystal film for anti-motion sickness and methods</td>
<td>US</td>
<td>FP</td>
<td>National Phase</td>
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<td>thereof</td>
<td>EU</td>
<td>FP</td>
<td>National Phase</td>
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<tr>
<td>Methods of manufacture of inorganic black dyes and uses thereof</td>
<td>US</td>
<td>FP</td>
<td>PCT</td>
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<tr>
<td>Suspended particle devices with improved adhesion between the active and</td>
<td>US</td>
<td>FP</td>
<td>Provisional</td>
</tr>
<tr>
<td>conducting layers</td>
<td></td>
<td></td>
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</table>

### Trade Marks

<table>
<thead>
<tr>
<th>Description</th>
<th>Submitted In</th>
<th>Type</th>
<th>Current Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCG®</td>
<td>Israel</td>
<td>TM</td>
<td>Granted</td>
</tr>
<tr>
<td></td>
<td>US</td>
<td>TM</td>
<td>Granted</td>
</tr>
<tr>
<td></td>
<td>Europe</td>
<td>TM</td>
<td>Granted</td>
</tr>
</tbody>
</table>

FP – Full Patent  | UM – Utility Model  | TM – Trademark
B2B – Our Go2Market

Gauzy offers Glass Processors, Fabricators, and Installers the unique opportunity to be a Certified Gauzy Partner. Global partners are carefully selected, undergo extensive on-site training, and receive the tools necessary to guarantee the LCG® verification and installation process. Working with Gauzy enables partners to expand their portfolio with our Laminated and RetroFit solutions, while increasing their share in the market to stand out from competition.

Become a Gauzy Certified Partner

Certification Program  LCG® Film Delivery  Quality Testing
Film Lamination  Post Lamination Testing  Open New Markets
Embedded Material Science

Gauzy’s LCG® Technology can be seen worldwide. Check out some highlighted projects from our constantly growing portfolio.
The following figures represent the worldwide market potential of different sectors Gauzy is focused on.

<table>
<thead>
<tr>
<th>Sector</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat Glass Market 2017</td>
<td>11,340,028,418 m²</td>
</tr>
<tr>
<td>Glass Partition Market</td>
<td>$1.7B</td>
</tr>
<tr>
<td>Smart Glass &amp; Windows Demand</td>
<td>$3.89B</td>
</tr>
<tr>
<td>Projection Screen Market</td>
<td>$66B</td>
</tr>
<tr>
<td>Automotive Smart Glass Market</td>
<td>$1.28M</td>
</tr>
<tr>
<td>Architectural Smart Glass Market</td>
<td>$3.25M</td>
</tr>
</tbody>
</table>

1. Considering 7% annual market growth, global flat glass industry research by NSG (Pilkington) 2010.
4. [Source](http://www.marketsandmarkets.com/Market-Reports/smart-glass-market-907.html)
5. By 2022 as predicted by Frost and Sullivan. Report available upon request
6. By 2022 as predicted by Frost and Sullivan. Report available upon request
The Glass Industry is shared by region and sector as follows:

**North America**
- Market share: 8%
- Average growth rate: 7%

**South America**
- Market share: 4%
- Average growth rate: 7%

**Europe**
- Market share: 16%
- Average growth rate: 7%

**China**
- Market share: 50%
- Average growth rate: 7%

**Japan**
- Market share: 5%
- Average growth rate: 7%

**Former USSR**
- Market share: 4%
- Average growth rate: 7%

**South East Asia**
- Market share: 7%
- Average growth rate: 7%

**Rest of the World**
- Market share: 6%
- Average growth rate: 7%

**Construction and Architecture**
- 81.8%

**Automotive Industry**
- 5.9%

**Other**
- 12.3%
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