

LCG<sup>®</sup>

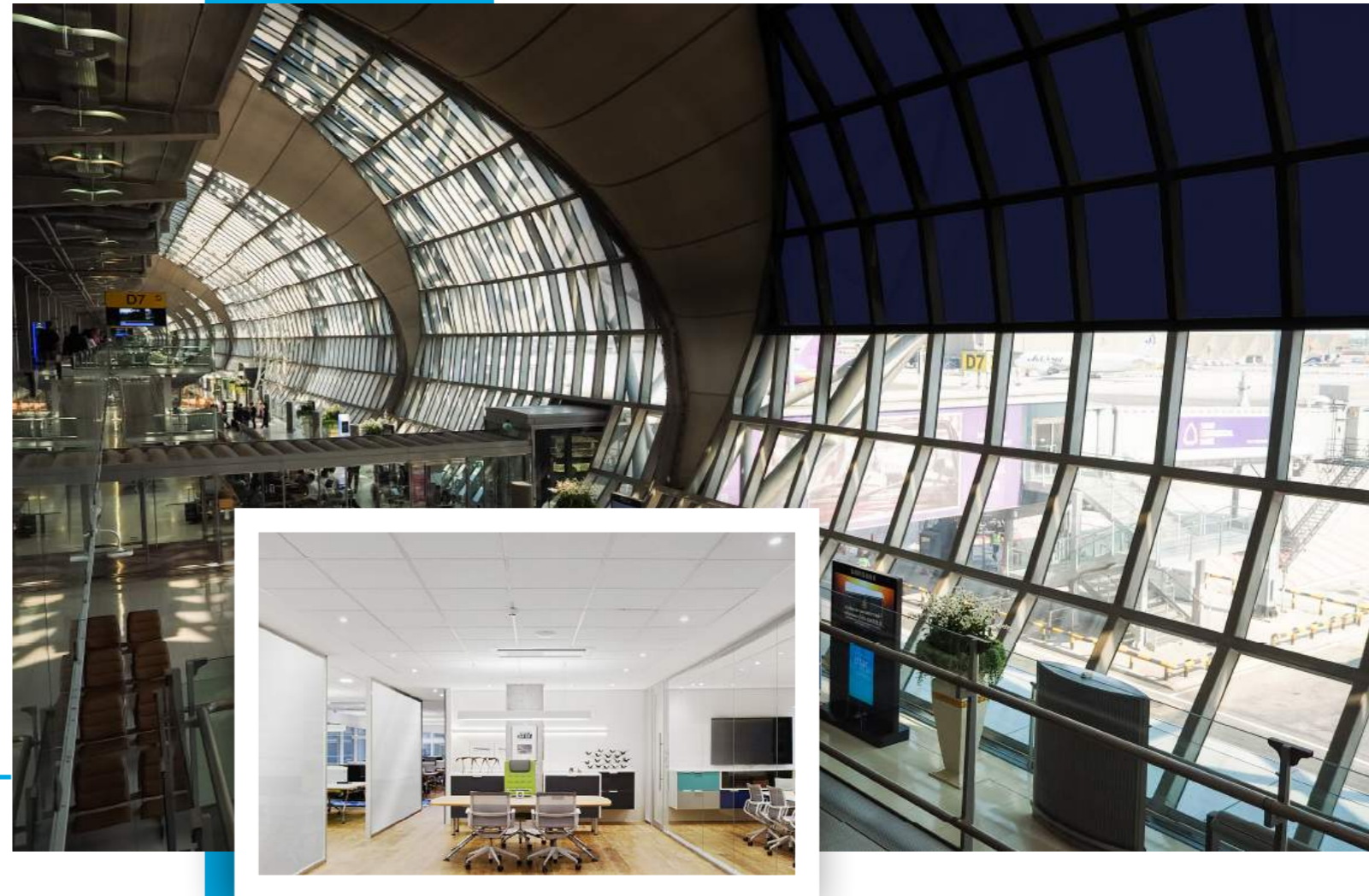
PRODUCT GUIDE  
& APPLICATIONS

For Architects and Designers

# FUTURE FACING DESIGN, DEFINED BY TRADITION

Contemporary architecture and interior design emphasizes minimalism, an abundance of natural light, well appropriated agile spaces and connection to the environment. Glass has become the material of choice to fulfill this modern design philosophy.

Combining both tradition and modernity, while meeting the evolving needs of builders, owners, and occupants, Gauzy's LCG® technologies create innovative solutions that set a new standard for high performance glazing in future facing facilities.



## A NEW GLASS EXPERIENCE

Gauzy's PDLC and SPD based LCG® technologies, used to create Smart Glass, transform everyday glass into a multifunctional building material that redefines how people interact with light, glass, and their surroundings.

### The Benefits of Choosing Gauzy LCG®:

- full transparency or instant opacity for privacy, shading, thermal control, and transparent displays
- optimize space and create agile open or hybrid floor plans
- enhance occupant wellbeing with access to natural light and views
- flexibility to control the use and ambiance of a space instantly
- easy to clean solution that replaces traditional window treatments and privacy curtains
- contribute to sustainable design with reduced dependence on artificial lighting and HVAC load

SOME CALL IT  
SMART GLASS.  
WE CALL IT

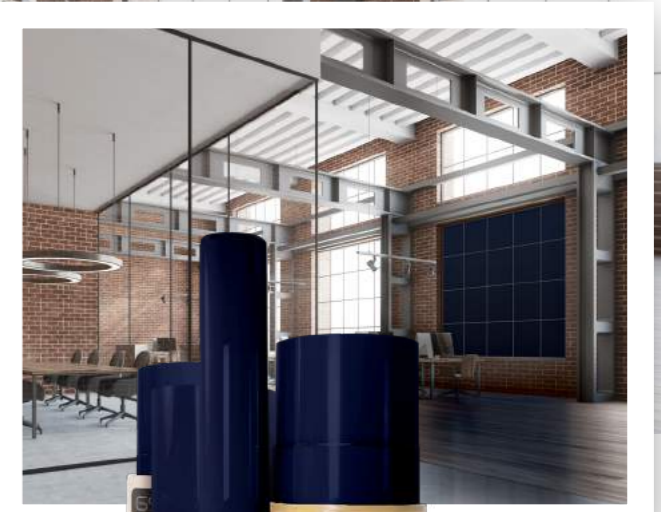
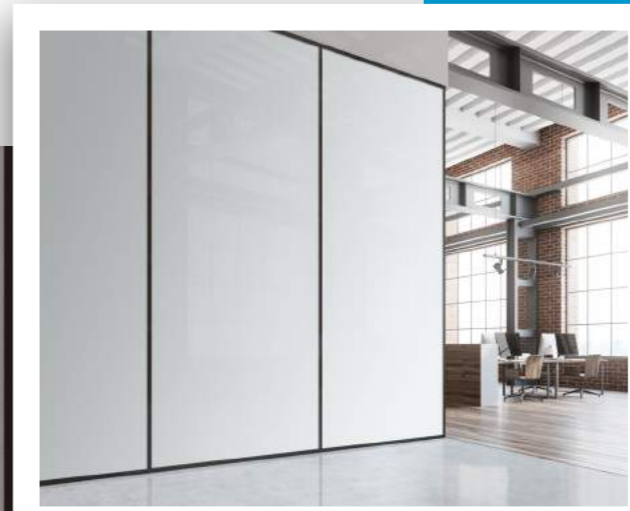
LCG<sup>®</sup>

Gauzy's LCG<sup>®</sup> (light control glass) technologies include a variety of Polymer Dispersed Liquid Crystal (PDLC) or Suspended Particle Device (SPD) based films, which are laminated into, or retrofitted onto, glass by Gauzy's trusted partners worldwide.

## TWO STANDOUT TECHNOLOGIES

Gauzy is the only material science company in the world to develop and manufacture two out of three active light control technologies: PDLC and SPD. Gauzy's films laminated into glass creates LCG<sup>®</sup> smart glass, while films applied to existing glass are called LCG<sup>®</sup> adhesive smart film. Each product offers unique benefits and features to best support the evolving needs for shading and privacy for interior and exterior applications.

PDLC technology is available in newly laminated glass or as an adhesive film to be applied onto existing glass. SPD technology is available as a laminated solution. Both PDLC and SPD are available with custom laser patterning.



### Gauzy PDLC Technology

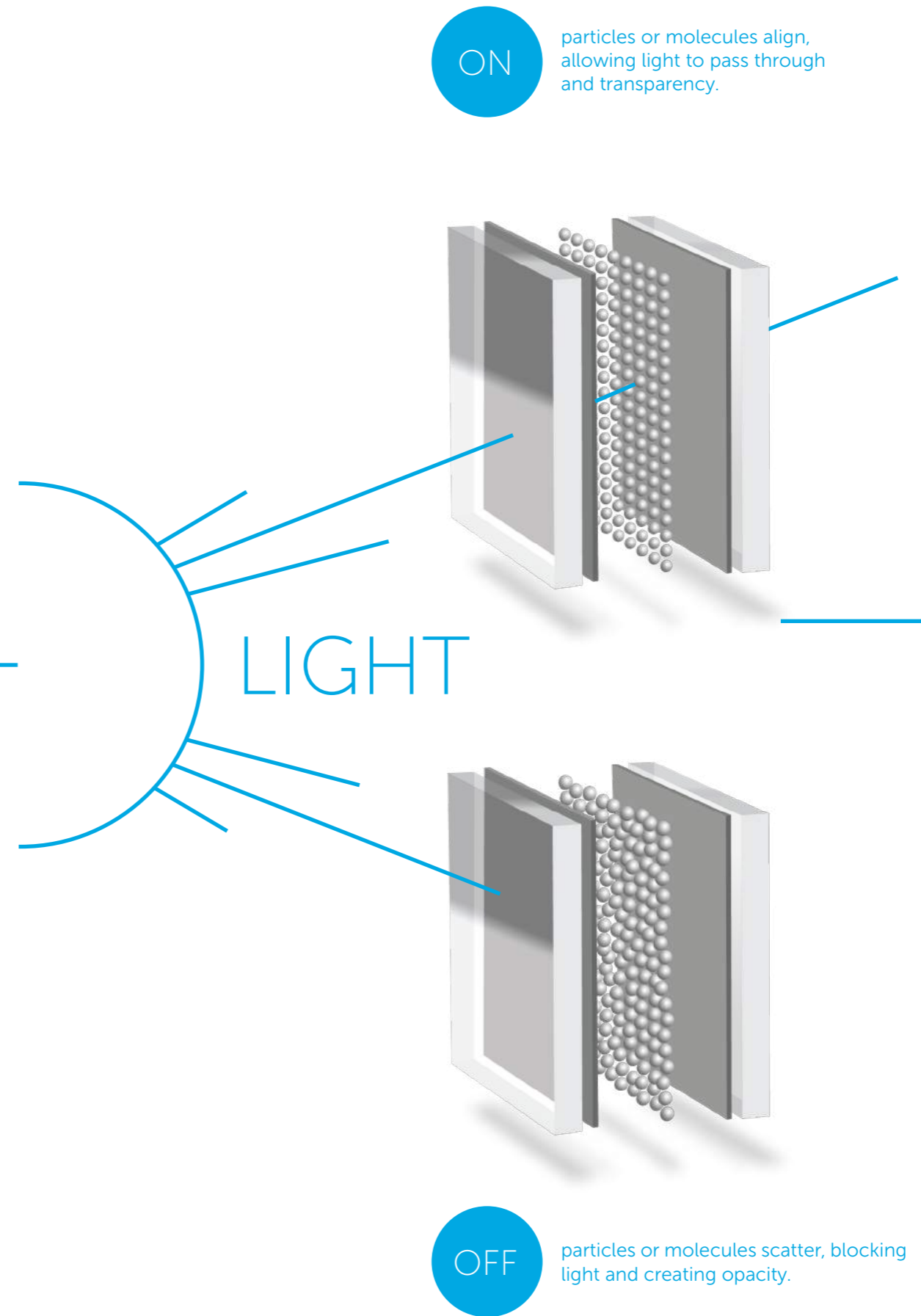
Indoor and outdoor grade Liquid Crystal smart glass and adhesive smart films support opaque to transparent switching for privacy, projection and IR reflection.

### Gauzy SPD Technology

Gauzy SPD smart glass blocks up to 99% of visible light, allowing users to tint glass in seconds for dynamic shading without blocking views to the outside environment.

# HOW IT WORKS

PDLC and SPD [smart glass technologies](#) change transparency and opacity with electrical supply to control various types of light. The unique particles or molecules inside our films scatter when off, blocking light and creating opacity. When on, particles or molecules align, allowing light to pass through and transparency.



# LCG<sup>®</sup>

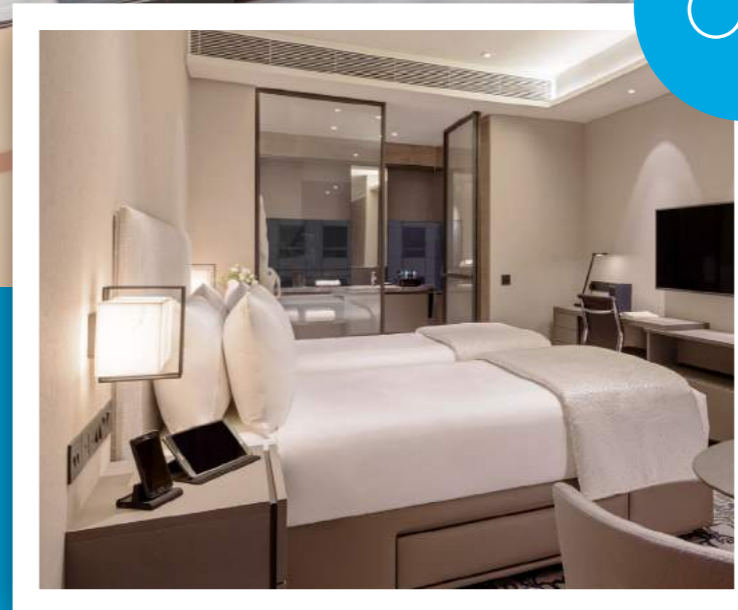
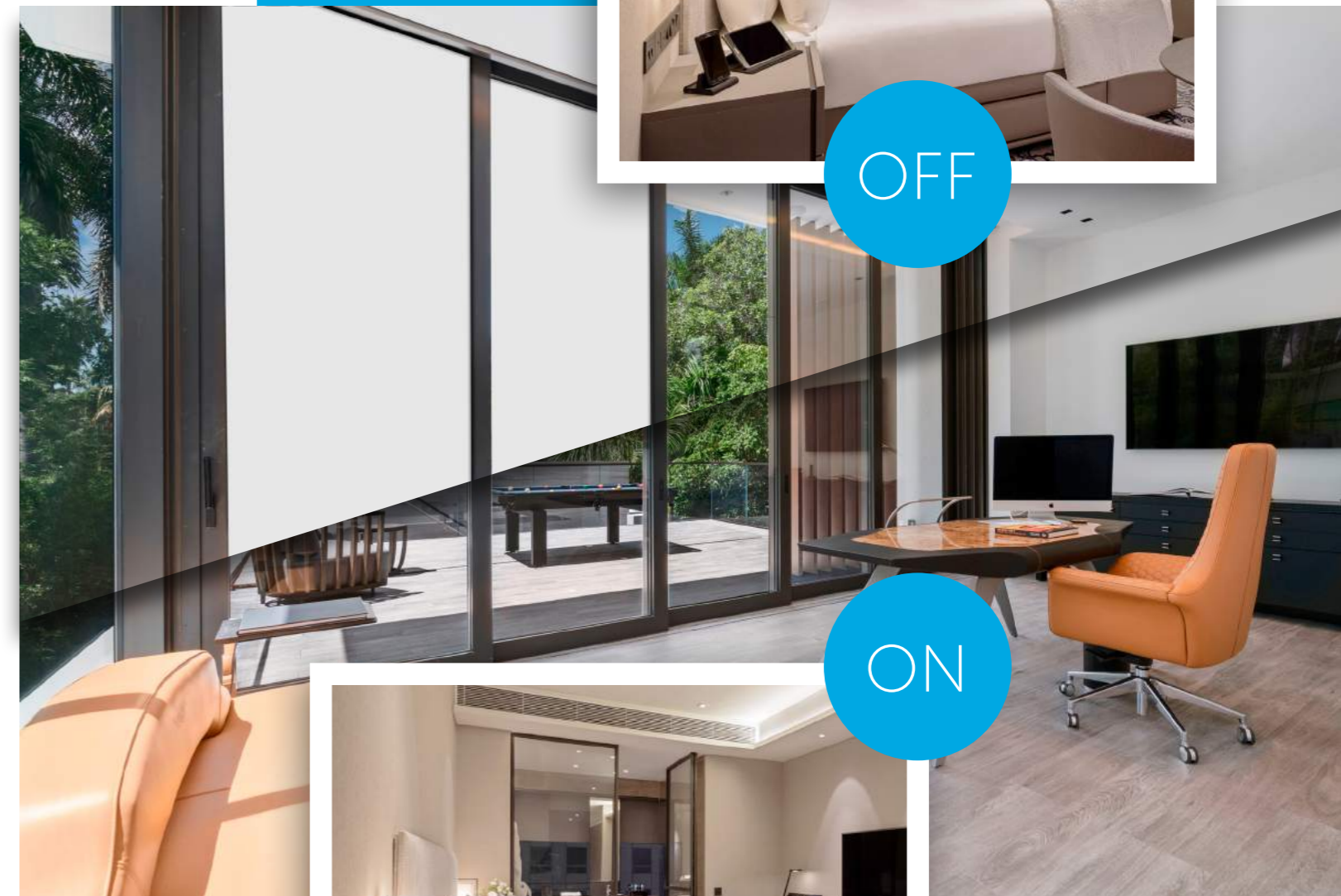
## LIQUID CRYSTAL TECHNOLOGIES

**Gauzy's liquid crystal based products allow glass to switch from opaque to controlled levels of transparent in just 3 milliseconds.**

Controlling various types of light, paired with switchable features, liquid crystal LCG<sup>®</sup> supports:

- instant privacy or an open atmosphere
- solar IR reflection for temperature control
- displays that turn transparent when paired with projection

PDLC films are laminated into various types of glass for new projects or can be retrofitted onto existing glass for a unique space that suits both modern and future facing designs.



# PDLC LCG® Technology

Gauzy's liquid crystal based laminated LCG® smart glass is versatile product available in indoor and outdoor grades, in varying types and sizes, suitable for an array of applications. Paired with patented control hardware, specifying Gauzy comes with the confidence of offering smart glass with high optical, mechanical, and electrical performance with lasting durability.

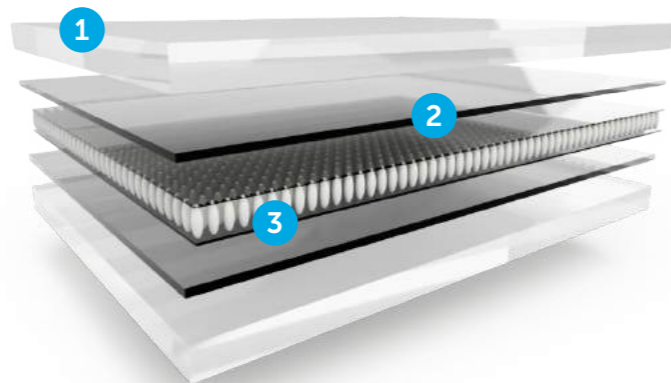
Proven to last over 18 million on/off cycles and upwards of 10,000 consecutive 'on' hours, Gauzy's PDLC is the most reliable in the market.

All PDLC films are available with invisible laser etched patterning for blinds or custom dynamic designs.

Gauzy's PDLC films are defined by the highest transparency with haze as low as 2.2%, millisecond switching times, and low energy consumption.

### Product Types:

- White (Indoor)
- Grey (Indoor)
- High Temperature White (Outdoor)
- High Temperature Grey (Outdoor)



1. Glass
2. Adhesive Interlayer
3. LC Film with PET/ITO

### Specifications:

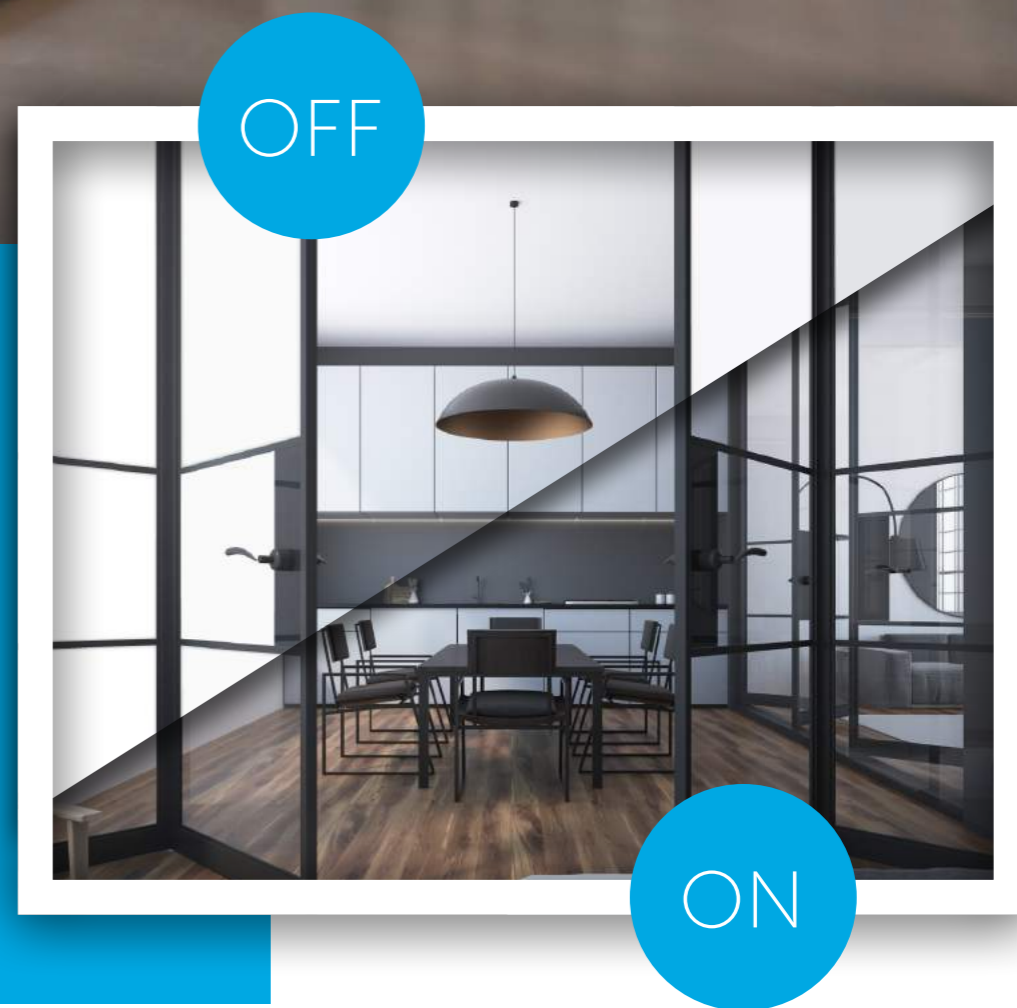
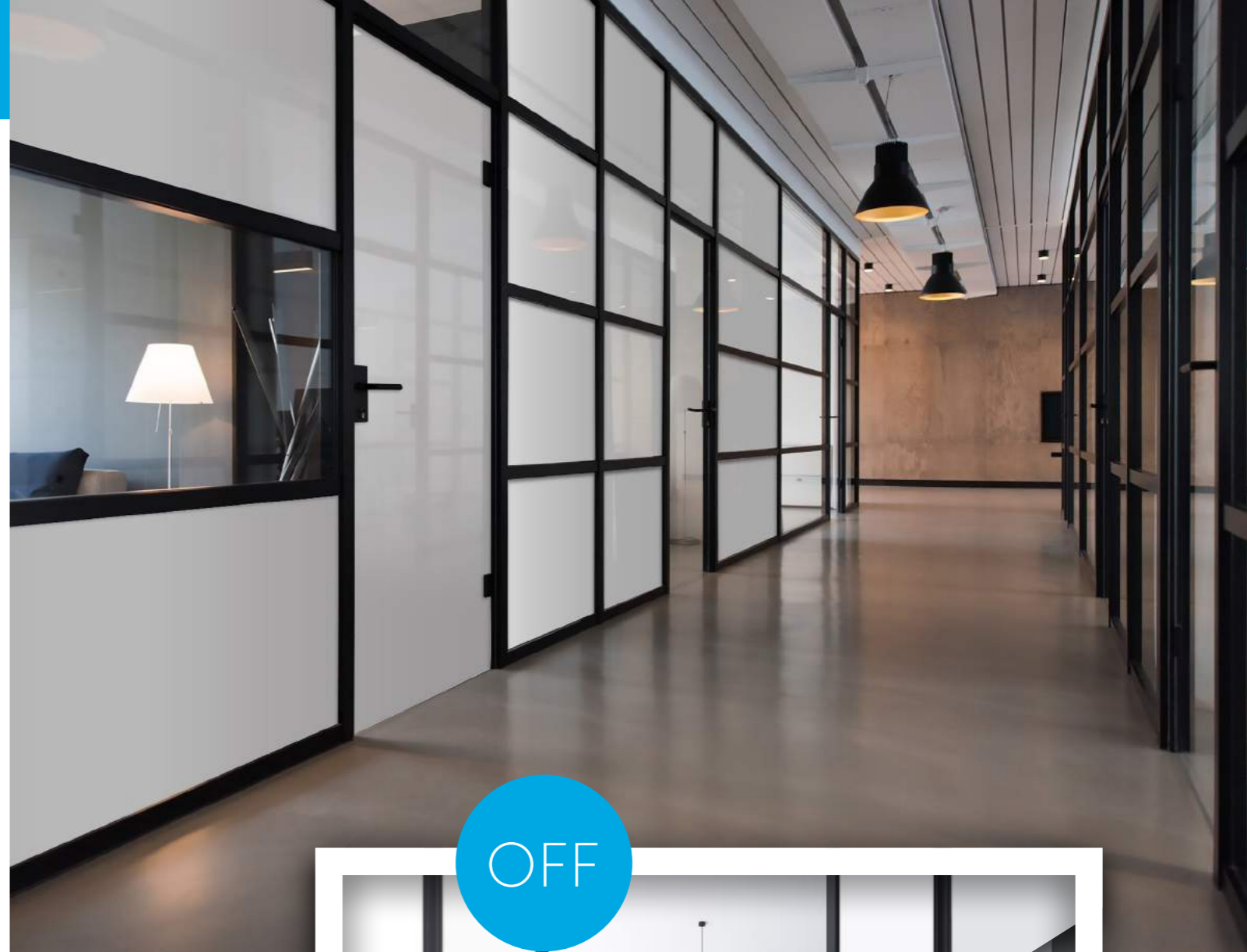
	White LC		Dark LC		White LC HT		Dark LC HT	
<b>Film Optical Performance</b>								
Attribute	OFF	ON <sub>1</sub>	OFF	ON <sub>1</sub>	OFF	ON <sub>1</sub>	OFF	ON <sub>1</sub>
Parallel Light Transmittance	4%	78%	3.50%	46%	3.3%	75%	2.20%	45%
VLT (Total Transmittance)	65%	80%	37%	49%	64%	80%	40%	47%
Haze (ON) <sub>2</sub>	2.5%		2.7%		3.0%		3.5%	
Color Grade	L* = 84		L* = 64.04		L* = 76.06		L* = 75.86	
	a* = 0.5		a* = -1.74		a* = 1.05		a* = -1.01	
	b* = 6.5		b* = -3.27		b* = 9.46		b* = 8.77	
<b>Film Technical Properties</b>								
Switching Time	10ms				5ms			
Lifecycle	18 Million +							
Operating Temperature	-20°C to +70°C				-20°C to +90°C			
Power Consumption	1-3W/m <sup>2</sup>							
Film Thickness <sub>3</sub>	375µ							
Maximum Width(mm) <sub>4</sub>	1800	1500	1800	1500	1800	1500	1800	1500
Cut-to-Fit	Custom Sizes, Shapes, Busbar Position; Holes and Notches							
Glass Types	Annealed, Tempered, Clear, Low Iron/Ultra Clear, IG Units, Other							
Patterning Available	Yes							
Storage Conditions	-20°C to +60°C, <50% Humidity							
Grade	Indoor				Outdoor			
<b>Electrical Performance</b>								
Controller Types	Mini, Flex, Multiplex, Custom							
Operating Modes	Fade, ON/OFF, Dimming							
Operating Voltage	42-70VAC							
Operating Frequency	25,32,50Hz							

<sup>1</sup> Optical Performance measured using square wave signals provided by Gauzy PDLC Controllers

<sup>2</sup> Haze tested on 'haze-gard i', by BYK. Laminated with PVB. Haze may vary based on interlayer. Results reported for Indoor at 25°C; HT at 80°C.

<sup>3</sup> Film thickness may vary

<sup>4</sup> Films can be ordered in rolls or cut-to-fit sheets at any length



# PDLC IR Solar Control LCG<sup>®</sup> Technology

Gauzy's patented Solar Control PDLC technology blocks IR, UV, and Visible Light supporting temperature and glare control for cooler and more comfortable spaces. Ideal for projects focusing on sustainable performance, Solar Control PDLC smart glass increases energy efficiency while providing a higher degree of occupant thermal and visual comfort combined with the benefit of instant switching between opaque and transparent.

### Key Features:

- Blocks up to 78% of Solar IR range and 99.9% of UV
- Reduces temperature by up to 15°C (59°F) inside a space
- 60% visible light transmission when off maintains a light filled atmosphere while shading and reducing glare
- Premium optical performance with haze as low as 3.3%
- Outdoor grade, supporting architectural glass up to 1.5m wide

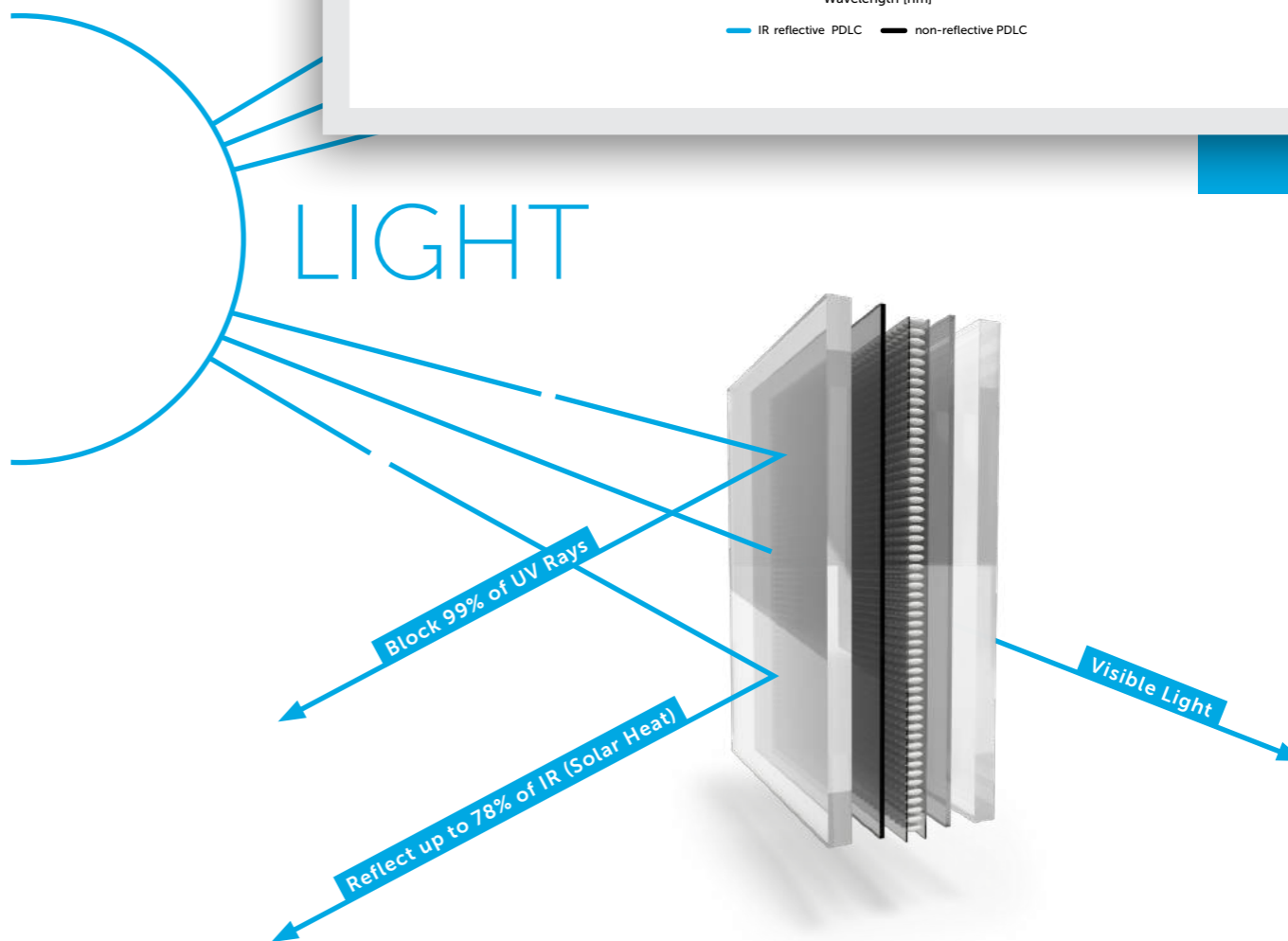
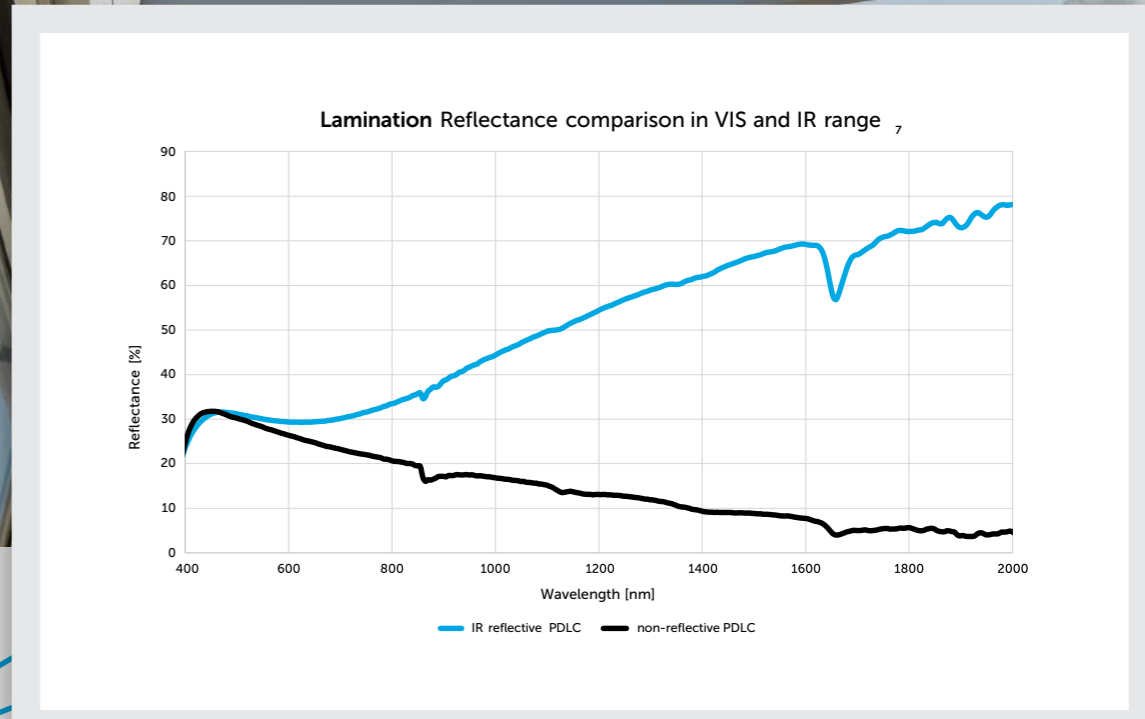
Optimized to perform in wide temperature ranges and exterior applications like facades and skylights, this product is compatible with various glass types, coatings, lamination stacks, and IGU systems, replacing traditional high maintenance shading and privacy solutions that compromise glass centric designs.

### Specifications:

White Solar LC

Film Optical Performance		
Attribute	OFF	ON <sub>1</sub>
Parallel Light Transmittance	3.2%	73%
VLT (Total Transmittance)	60%	75%
Haze (ON) <sub>2</sub>	25°C	3.3%
	80°C	3.9%
Color Grade	L*	75.86
	a*	-1.01
	b*	8.77
Film Technical Properties		
Switching Time	10ms	
Lifecycle	18 Million +	
Film Operating Temperature	-20°C to +90°C	
Film Power Consumption	1-3W/m <sup>2</sup>	
Film Thickness <sub>3</sub>	325µ	
Maximum Width (mm) <sub>4</sub>	1500	
Cut-to-Fit	Custom Sizes, Shapes, Busbar Position; Holes and Notches	
Glass Types	Annealed, Tempered, Clear, Low Iron/Ultra Clear, IG Units, Other	
Patterning Available	Yes	
Storage Conditions	-20°C to +60°C, <50% Humidity	
Grade	Outdoor	
Film Solar Performance <sub>5</sub>		
Attribute	Off	On
Visible Light Reflection - Interior	14.5%	14.3%
Visible Light Reflection - Exterior	16.8%	17%
UV Block	99.9%	99.9%
Total Solar Energy Reflection	26%	42%
Total Solar Energy Transmittance	9.6%	14.4%
Total Solar Energy Absorption	56.7%	56.7%
Shading Coefficient	0.23	0.24
G- Value	0.2	0.21
U- Value W/K*m <sup>2</sup>	1.31	1.31
ΔT(°C) <sub>6</sub>	Up to 15°C	
Energy Saving	For every degree reduced, Gauzy saves approx. 7% on air conditioning costs	
Electrical Performance		
Operative Controllers	Mini, Flex, Multiplex, Custom	
Operating Modes	Fade, ON/OFF, Dimming	
Operating Voltage	48-70VAC	

- Optical Performance measured using square wave signals provided by Gauzy PDLC Controllers
- Haze tested on 'haze-gard i', by BYK, laminated with PVB processing. Haze performance may vary if laminated with other types of interlayers
- Film thickness (µ) may vary
- Films can be ordered in rolls or cut-to-fit sheets at any length
- Results based on IR Solar Control Film laminated and implemented in the following stack: IGU, 1/23 on 8mm Low Iron (pan #2)/16mm Argon/8mm Low Iron + 8mm Low Iron
- \* VLT is lower for an IGU as compared to lamination. In On/Off state the light transmittance is 41% and 27% respectively
- \* Optical measurements are carried out at different temperatures from low to high to accommodate cooling times of PDLC and glass
- Gauzy Solar LCG<sup>®</sup> reflects up to 78% of thermal IR, which reduces temperatures inside a space by up to 15°C. Solar IR = 2000nm. This is the point where thermal IR is generally benchmarked
- Above 800 nm, IR PDLC films reflectance range increases and achieves ~78%, at 2000 nm, while the regular PDLC films present ~5%



# PDLC Retrofit LCG<sup>®</sup> Technology

## Adhesive Smart Film

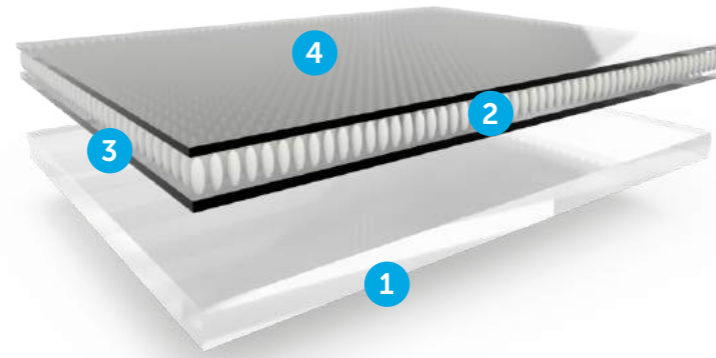
Gauzy's adhesive smart films are applied to existing glass, allowing any glass to instantly be converted into smart glass. Handled exclusively by professional window film installers, these films are designed to be easily retrofitted into existing spaces.

Working just like laminated LCG<sup>®</sup>, adhesive smart films support on-demand transparency or privacy, projection, and IR solar control. By retrofitting a project with Gauzy PDLC, the function of glass is extended from the moment installation is complete, for a spatial transformation

[Adhesive smart films](#) have a scratch resistant coating for durability and usability. Films can be installed onto almost any existing window, partition, or door. Films are precisely installed to ensure all wires and busbars are hidden with frames or other trimming solutions, creating a uniform and finished appearance.

### Product Types:

- White (Indoor)
- Grey (Indoor)
- IR Solar Control White (Outdoor)



1. Glass
2. LC Film with PET-ITO
3. Dry Adhesive
4. Scratch Resistant Coating

### Specifications:

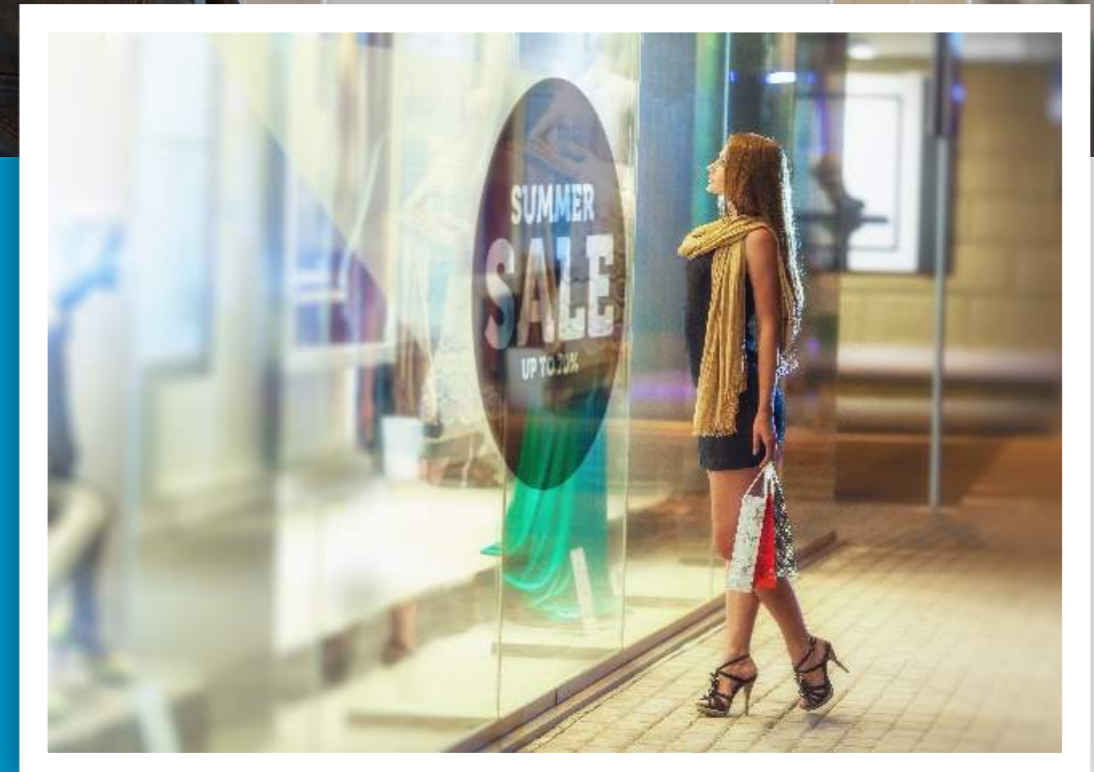
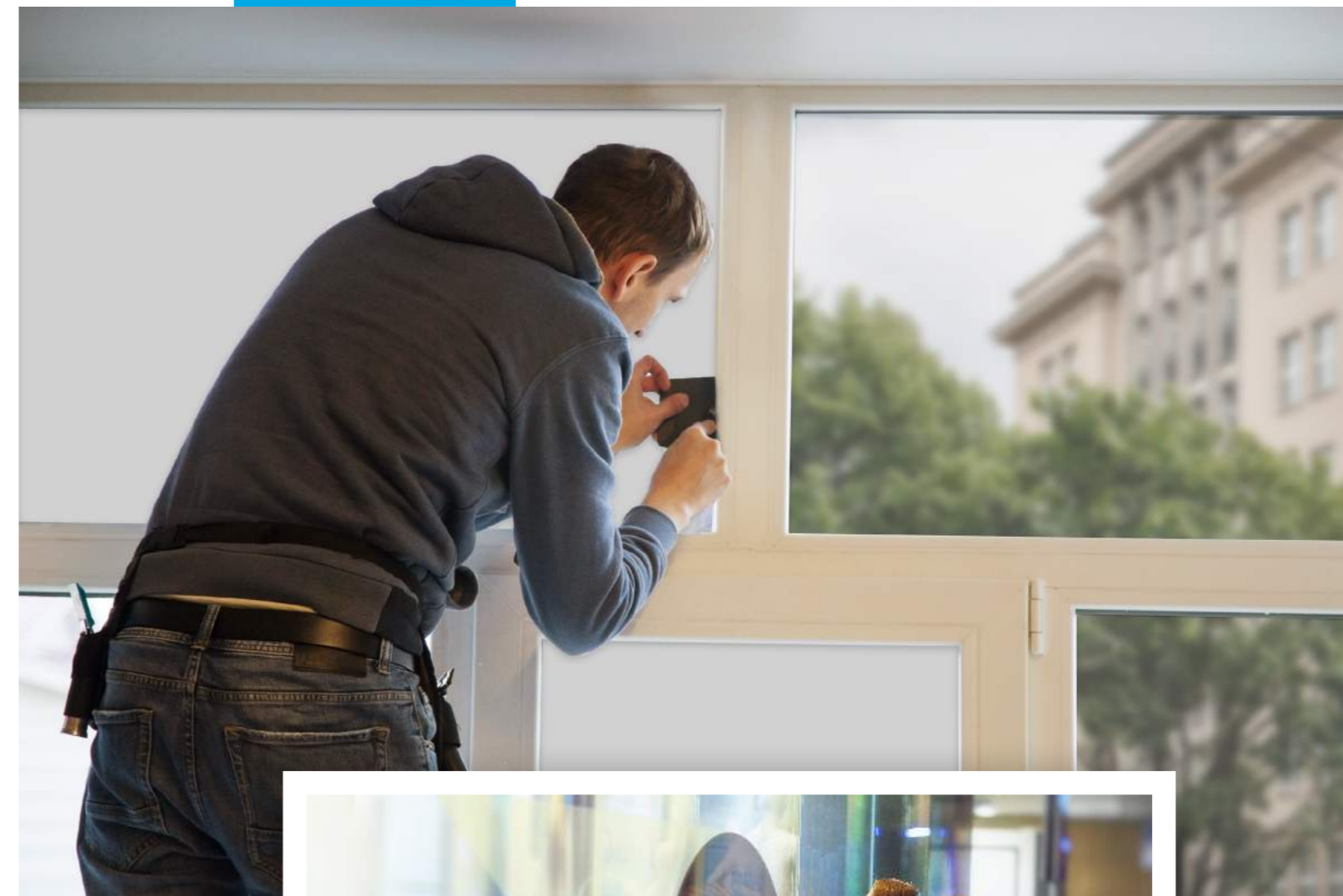
	White LC		Dark LC	
<b>Film Optical Performance</b>				
Attribute	OFF	ON <sub>1</sub>	OFF	ON <sub>1</sub>
Parallel Light Transmittance	4%	74%	2.9%	48%
VLT (Total Transmittance)	67%	77%	36%	50%
Haze (ON) <sub>2</sub>	3.8%		3.8%	
Color Grade	L* = 82.3		L* = 64.7	
	a* = 0.7		a* = 0.55	
	b* = 7.4		b* = 8.2	
<b>Film Technical Properties</b>				
Switching Time	10ms			
Lifecycle	18 Million +			
Operating Temperature	-20°C to +70°C			
Power Consumption	1-3W/m <sup>2</sup>			
Film Thickness <sub>3</sub>	560μ			
Maximum Width(mm) <sub>4</sub>	1500		1500	
Cut-to-Fit	Custom Sizes, Shapes, Busbar Position; Holes and Notches			
Glass Types	Annealed, Tempered, Clear, Low Iron/Ultra Clear, IG Units, Other			
Adhesive Type	Dry			
Scratchproof Coating	Yes			
Storage Conditions	-20°C to +60°C, <50% Humidity			
Grade	Indoor			
<b>Electrical Performance</b>				
Controller Types	Mini, Flex, Multiplex, Custom			
Operating Modes	Fade, ON/OFF, Dimming			
Operating Voltage	48-70VAC			
Operating Frequency	25,32,50Hz			

<sub>1</sub> Optical Performance measured using square wave signals provided by Gauzy PDLC Controllers

<sub>2</sub> Haze tested on 'haze-gard i', by BYK. Results reported for LC at 25°C

<sub>3</sub> Film thickness may vary

<sub>4</sub> Films can be ordered in rolls or cut-to-fit sheets at any length





# PDLC IR Solar Control LCG<sup>®</sup> Technology

## Adhesive Smart Film

Gauzy's Solar Control PDLC adhesive smart film is ideal for improved thermal and visual comfort while reducing HVAC cooling costs and direct glare that disrupts occupant wellbeing. Blocking IR, UV, and Visible Light combined with on-demand privacy and transparency, Solar PDLC Smart Film offers a technologically advanced and sustainable projects. Solar Control PDLC smart film is an easy to install upgrade, increasing energy efficiency while providing a technologically advanced, sleek shading solution to reduce eye strain while still maintaining a light filled open atmosphere.

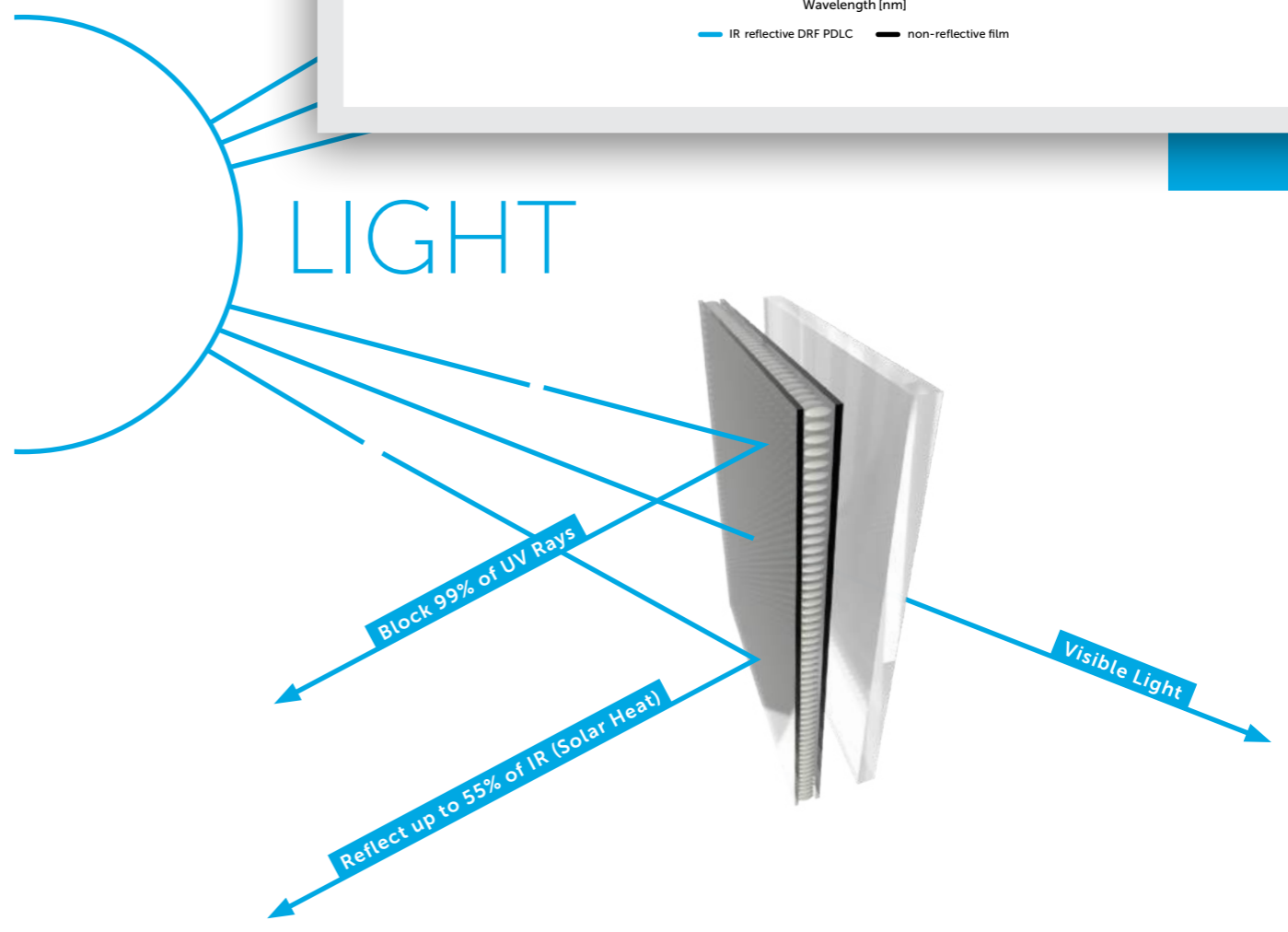
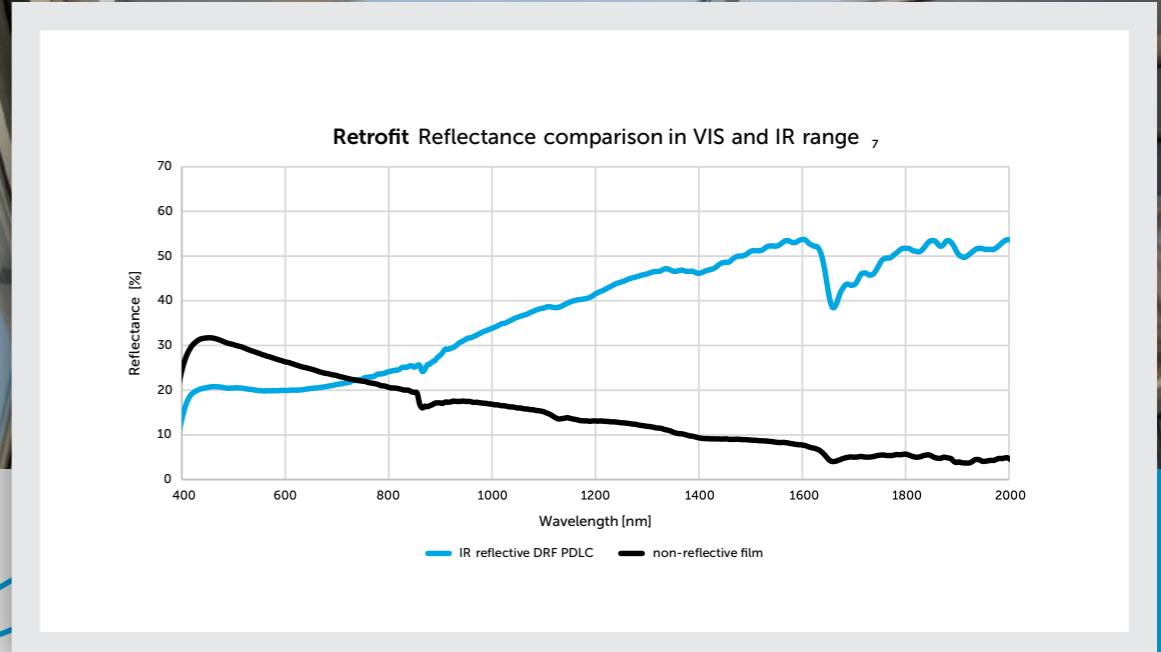
### Key Features:

- Blocks up to 55% of Solar IR range and 99.9% of UV
- Reduces temperature by up to 15°C inside a space
- 60% visible light transmission when off maintains a light filled atmosphere while shading and reducing glare
- Premium optical performance with haze as low as 3.6%
- Outdoor grade, supporting architectural glass up to 1.5m wide

Adhesive smart film with solar control properties is designed to be applied directly onto existing glass windows by trained window film installers. The product is optimized to perform in wide temperature ranges and is most commonly specified for facades, skylights and atriums.

### Specifications:

		White Solar LC	
<b>Film Optical Performance</b>			
Attribute	OFF	ON <sub>1</sub>	
Parallel Light Transmittance	3.2%	74%	
VLT (Total Transmittance)	60%	76%	
Haze (ON) <sub>2</sub>	25°C	4.4%	
	80°C	3.6%	
Color Grade	L*	77.12	
	a*	-0.08	
	b*	8.92	
<b>Film Technical Properties</b>			
Switching Time	6ms		
Lifecycle	18 Million +		
Film Operating Temperature <sub>3</sub>	-20°C to +90°C		
Film Power Consumption	1-3W/m <sup>2</sup>		
Film Thickness	505 μ		
Maximum Width (mm) <sub>4</sub>	1500		
Cut-to-Fit	Custom Sizes, Shapes, Busbar Position; Holes and Notches		
Glass Types	Annealed, Tempered, Clear, Low Iron/Ultra Clear, IG Units, Other		
Adhesive Type	Dry		
Scratchproof Coating	Yes		
Storage Conditions	-20°C to +60°C, <50% Humidity		
Grade	Outdoor		
<b>Film Solar Performance <sub>5</sub></b>			
Attribute	Off	On	
Visible Light Reflection - Interior	19.83%	13.4%	
Visible Light Reflection - Exterior	22.02%	14.21%	
UV Block	99%	99%	
Total Solar Energy Reflection	29.90%	29.20%	
Total Solar Energy Transmittance	39.1%	55%	
Total Solar Energy Absorption	31%	15.7%	
Shading Coefficient	0.56	0.69	
G- Value	0.49	0.6	
U- Value W/K*m <sup>2</sup>	5.88	5.88	
ΔT(°C) <sub>6</sub>	Up to 15°C		
Energy Saving	For every degree reduced, Gauzy saves approx. 7% on air conditioning costs		
<b>Electrical Performance</b>			
Operative Controllers	Mini, Flex, Multiplex, Custom		
Operating Modes	Fade, ON/OFF, Dimming		
Operating Voltage	48-70VAC		



- <sup>1</sup> Optical Performance measured using square wave signals provided by Gauzy PDLC Controllers
- <sup>2</sup> Haze tested on 'haze-gard i', by BYK.
- <sup>3</sup> Film thickness (μ) may vary
- <sup>4</sup> Films can be ordered in rolls or cut-to-fit sheets at any length
- <sup>5</sup> Results based on Gauzy's Solar Film retrofit on clear glass
- <sup>6</sup> Optical measurements are carried out at different temperatures from low to high to accommodate cooling times of PDLC and glass
- <sup>7</sup> Above 800 nm, IR PDLC films reflectance range increases and achieves ~55%, at 2000 nm, while the regular PDLC films present ~5%

# LCG® PDLC Controllers

Patented controllers by Gauzy provide the highest quality optical, mechanical, and electrical performance of LCG® laminated smart glass and adhesive smart films.

As the only smart glass controller in the market, Gauzy's hardware employs square wave signals, allowing films to stay on 24 hours a day with no burn in and ensure ultra high transparency. Gauzy's controllers protect smart glass against power surges and extend the lifetime of smart glass and film.

Gauzy's mini, FLEX, and MultiPlex controllers each offer a unique set of features best suited for varying glass sizes, input channels, and user preferences.

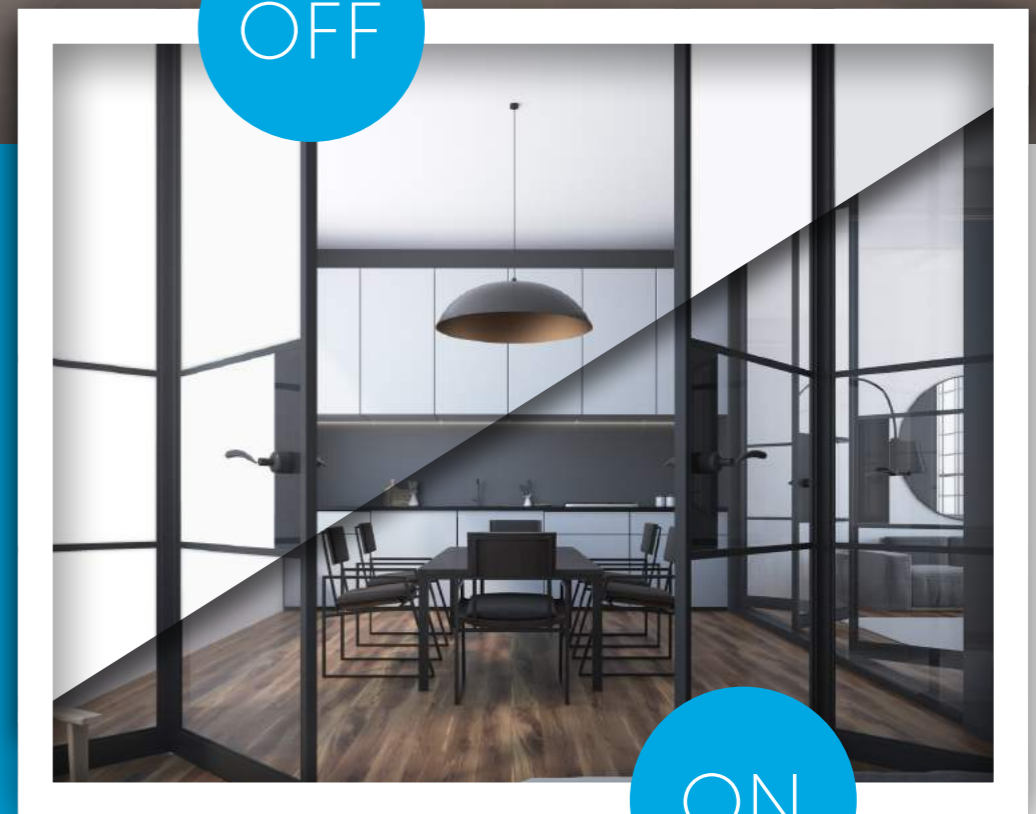
## Features:

- On, Off, Dimming, Fade transitions
- Small form factor and footprint for easy installation
- Large drive capacity
- Advanced protection features for better ROI and reduced MTBF
- Ultra-low voltage reduces up to 40% of power consumption
- WIFI/DMX/RS-485 compatible for easy connection to automation systems



## Specifications:

	Mini	Flex	MultiPlex
<b>Electrical Performance</b>			
Universal Inupt	110/220VAC, 50/60Hz, 450mA	110/220VAC, 50/60Hz, 1360mA	110/220VAC, 50/60Hz, 1360mA
Output Voltage	42,48,70VAC Square wave, 25/30/32/50/60Hz, 600mA	42,48,70VAC Square wave, 25/30/32/50/60Hz, 1970mA	42,48,70VAC Square wave, 25/30/32/50/60Hz, 1970mA
Supported LCG® Area (up to)	4m <sup>2</sup> / 43ft <sup>2</sup>	10m <sup>2</sup> / 107ft <sup>2</sup>	10m <sup>2</sup> / 107ft <sup>2</sup>
Dimensions (LxWxH) (mm)	125x75x35	165x104x35	224x104x35
Weight (controller only)	.44kg	.71kg	.94kg
Wall Mounting	Built-in	Mounting Brackets	Mounting Brackets
Output Channel	1	1	1 to 32
Operating Configurations	On/Off, Fade	On/Off, Dimmer	On/Off, Blinds Fade
DMX	N/A	On/Off, Dimmer, Open Interface	DMX On/Off
COM	N/A	On/Off, Dimmer, Open Interface	On/Off, Fade
Cascade	N/A	0-10VDC	N/A



# LCG<sup>®</sup>

## SPD TECHNOLOGY

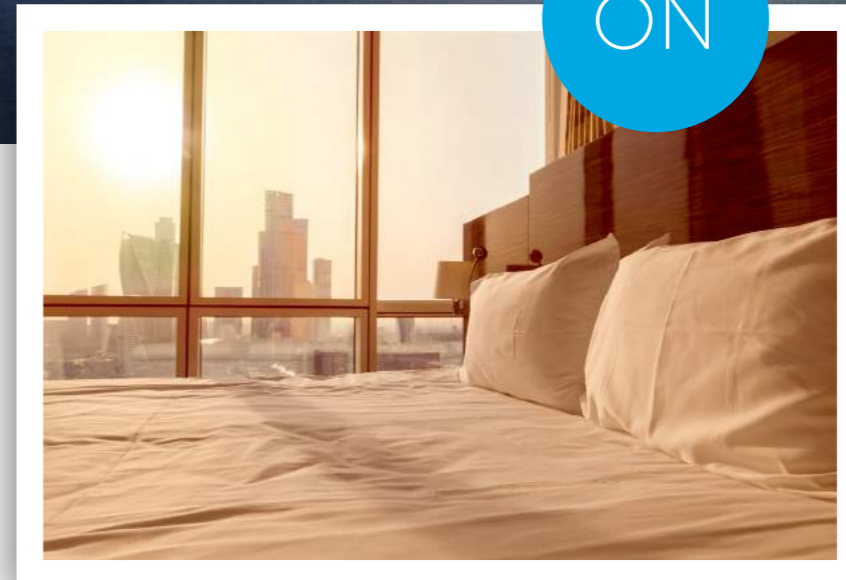
Gauzy's SPD (suspended particle device) based products allow glass to dim and tint from opaque to transparent for user controlled shading and glare mitigation.

By blocking up to 99% of visible light on demand, SPD LCG<sup>®</sup> supports:

- custom levels of shade without compromising views
- optimization of natural light for increased well-being and lower electric costs
- modern and minimalist architectural glass designs
- instant control with switching in less than 3 seconds

Gauzy's SPD emulsions and films support architectural grade SPD smart glass. Ideal for blocking light in exterior windows, large scale glass and skylights, SPD LCG<sup>®</sup> offers a durable, easily maintained, sleek and contemporary shading solution.

Blocking more than **99%**  
of visible light

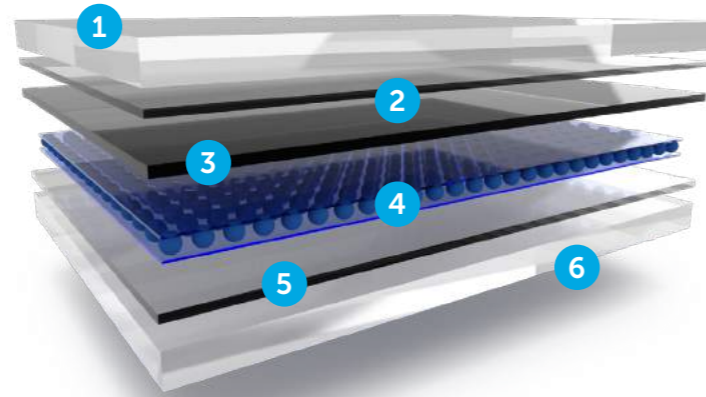


Gauzy's SPD technology is laminated by trained and certified licensed partners, ensuring high quality smart glass for diverse projects worldwide. SPD LCG® is an easily maintained and durable shading solution for exterior windows or light sensitive areas in interiors.

SPD films can be patterned with custom shapes and designs enabling the segmentation of glass for precise light control. The only SPD technology available in architectural glass widths and compatible with curved and slanted glass, this product is ideal for facades, skylights and atrium windows.

Regardless of glass size, Gauzy's SPD films maintain a switching time as fast as three seconds, but can be customized to dim at a slower rate. SPD LCG® offers instant glare reduction and user controlled dimmer for custom levels of shading while retaining the benefits of views and connection to the outside environment.

SPD provides a cutting edge shading solution that transforms glass into an active material and an integral part of modern design without limitations of traditional or motorized blinds and curtains.



1. Glass
2. Adhesive Interlayer
3. IR Protective Layer
4. SPD on PET/ITO
5. Adhesive Interlayer
6. Glass

### Specifications:

SPD

Film Optical Performance	
Attribute	OFF      ON <sup>1</sup>
VLT (Total Transmittance)	<1%      50%
Haze (ON) <sup>2</sup>	3.5%
Color Grade	L* = 10
	a* = 5
	b* = -24
Film Technical Properties	
Switching Time	3 sec
Operating Temperature	-10°C to +90°C
Film Thickness <sup>3</sup>	340µ
Maximum Width(mm)	1800
Cut-to-Fit	Custom Sizes, Shapes, Busbar Position; Holes and Notches
Interlayer Compatibility	PVB, EVA, SGP, TPU
Glass Types	Annealed, Tempered, Clear, Low Iron/Ultra Clear, IG Units, Other
Patterning Available	Yes
Storage Conditions	-20°C to +60°C, <60% Humidity
Electrical Performance	
Operative Controllers	Mini, Flex, Multiplex, Custom
Operating Modes	Fade, ON/OFF, Dimmer
Operating Voltage	100VAC
Operating Frequency	22, 25, 30, 50, 60Hz

<sup>1</sup> Transmittance measured using a square wave signal at: 100V, 50Hz, provided by Gauzy SPD Controllers. This is the recommended operating frequency

<sup>2</sup> Haze tested on 'haze-gard i', by BYK, using recommended operating frequency. Haze performance results reported for 25°C. Haze results may vary based on lamination process.

<sup>3</sup> Film thickness may vary

\* Results based on SPD film laminated with TPU and clear glass

Patented controllers by Gauzy ensure the highest quality optical, mechanical, and electrical performance of LCG® laminated smart glass with SPD technology.

As the only smart glass controller in the market, Gauzy's hardware employs square wave signals, allowing films to stay on 24 hours a day with no burn in and ensure ultra high transparency. Gauzy's controllers protect smart glass against power surges and extend the lifetime of smart glass and film.

Gauzy's mini, FLEX, and MultiPlex controllers for SPD each offer a unique set of features best suited for varying glass sizes, input channels, and user preferences.

### Features:

- On, Off, Dimming, Fade transitions
- Small form factor and footprint for easy installation
- Large drive capacity powers up to 40m<sup>2</sup> / 430ft<sup>2</sup> of glass per unit
- Advanced protection features for better ROI and MTBF
- Ultra-low voltage reduces up to 40% of power consumption
- Smart home system/dry contact/DMX/RS-485 compatible for easy connection to automation systems



### Specifications:

Mini

Flex

MultiPlex

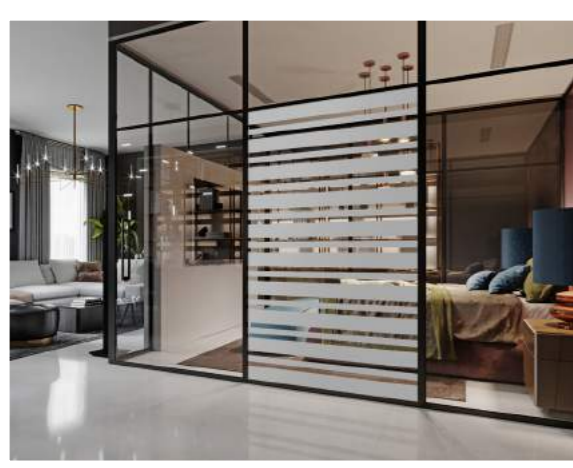
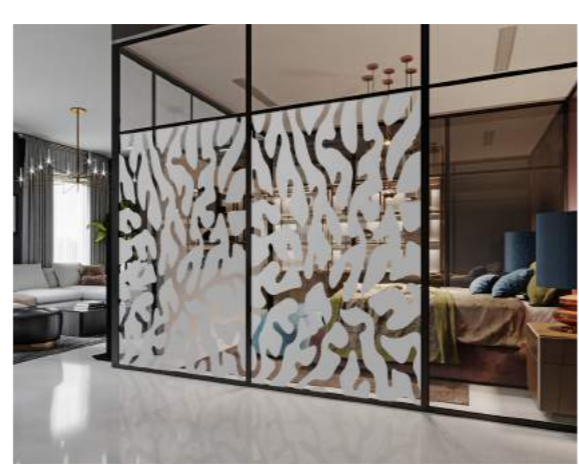
Electrical Performance			
Input Power	110/220VAC, 50/60Hz, 450mA	110/220VAC, 50/60Hz, 900mA	110/220VAC, 50/60Hz, 900mA
Output Voltage	100VAC Square wave, 25/30/32/50/60Hz, 350mA	100VAC Square wave, 25/30/32/50/60Hz, 1070mA	100VAC Square wave, 25/30/32/50/60Hz, 1070mA
Supported LCG® Area (up to)	20m <sup>2</sup> / 215ft <sup>2</sup>	40m <sup>2</sup> / 430ft <sup>2</sup>	40m <sup>2</sup> / 430ft <sup>2</sup>
Dimensions (LxWxH) (mm)	125x75x35	165x104x35	224x104x35
Weight (controller only)	.44kg	.71kg	.94kg
Wall Mounting	Built-in	Mounting Brackets	Mounting Brackets
Output Channel	1	1	1 to 32
Operating Configurations	On/Off, Fade	On/Off, Dimmer	On/Off, Blinds Fade
DMX	N/A	On/Off, Dimmer, Open Interface	DMX On/Off
COM	N/A	On/Off, Dimmer, Open Interface	On/Off, Fade
Cascade	N/A	0-10VDC	N/A



# Laser Patterned Designs

Gauzy's patterned films support an even deeper level of design customization and light control, with options that speak to an array of design tastes for an even more memorable smart glass experience.

With a proprietary laser machine, nonvisible patterns are etched onto films creating segments that can have individual or group control. Achieve complete transparency, opacity, dynamic designs or strategic light blocking zones as power is applied or removed from each individual segment.



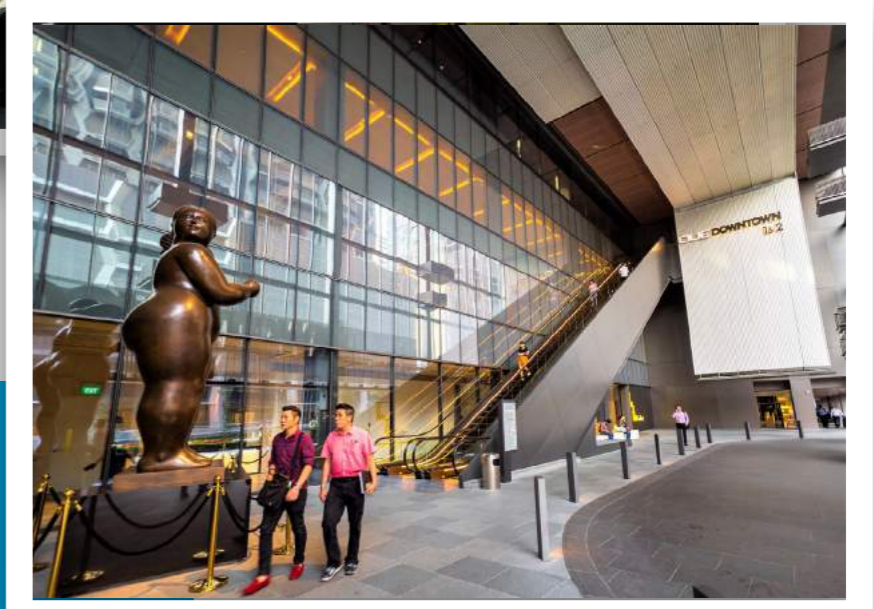
### Features:

- 35µ lines support nonvisible etching
- Unlimited segments with corresponding busbar positioning
- Individual or grouped segment control with Gauzy's MultiPlex controller
- Standard straight and wavy blinds, or custom free from designs
- Allows glass that is fully transparent, fully opaque, or dynamic with shifting patterns
- Consistent patterning for a continuous, uniform finish

# Projection

LCG® sets a new standard in digital displays, creating a multi functionality that brings the possibility for communication, connection, and entertainment to any glass surfaces around us.

Compatible with any type of projector, LCG® instantly turns windows and glass partitions into color rich dynamic HD displays that turn transparent. Enabling time and location based ads in retail, to vibrant and immersive screening surfaces in commercial or private spaces, AV and system integrators can create immersive and memorable experiences.

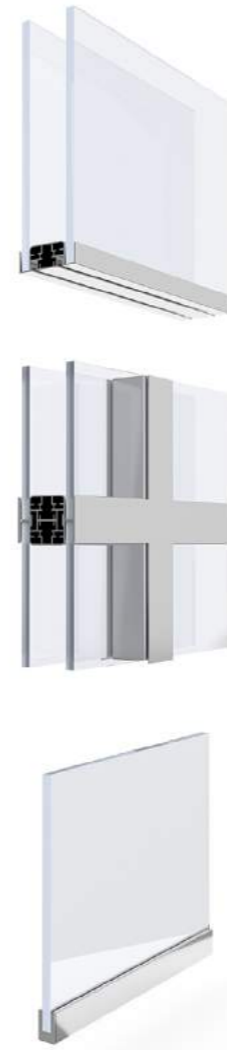


# EASILY INTEGRATABLE

Cut to fit and made to order by Gauzy's certified partners, according to specifications and special requests, Gauzy's PDLC and SPD LCG® technologies are available in varying sizes, with holes and notches to suit special hinges and handles that support wiring and control.

Easily integrated into off-the-shelf or custom glass window, door, and partitioning systems, LCG® is compatible with:

- C, U, and T profiles
- frameless butt glazed finishes
- double glazed partitions with acoustic control
- IGU windows
- aluminum and wood modules
- Various types of doors & hinges (sliding, accordion, swing & other)



## IGU and Acoustic Partitioning

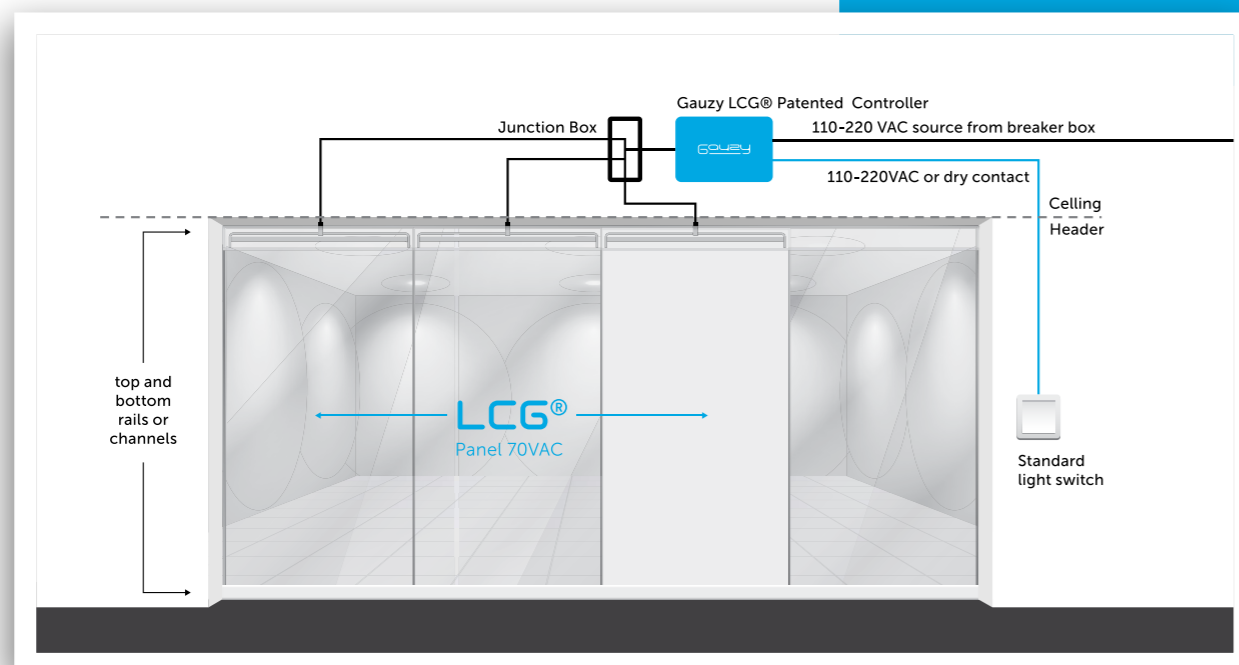
Isolate or mitigate sound and ambient noise while providing extra value with switchable LCG®

## Easily integratable

IGU and Acoustic Partitioning Isolate or mitigate sound and ambient noise while providing extra value with switchable LCG®

## U - Profiles

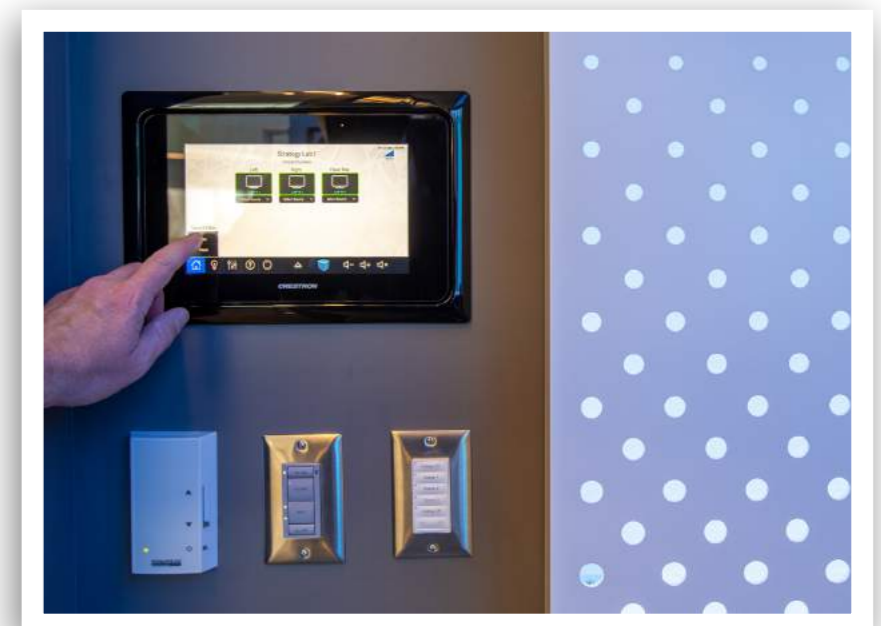
For the ultimate clean, minimalist, and simple partitions, in wet and dry spaces.



As dynamic as it's users, LCG® can be operated with different control interfaces, for spaces that are smart, intuitive, and connected.

Supporting interactive experiences, automation or simple functional use in private or commercial spaces, Gauzy's technologies can be controlled via:

- wifi touch panels
- RF remotes
- Traditional wall switches
- Integration with popular systems including Lutron, Crestron, Alexa, Josh, or custom programs



# Offices

Support spatial agility in open or hybrid floorplans by enabling glass to switch from opaque to transparent to create on-demand privacy or an open atmosphere supporting employee wellbeing and preferences for a dynamic work environment that promotes productivity.

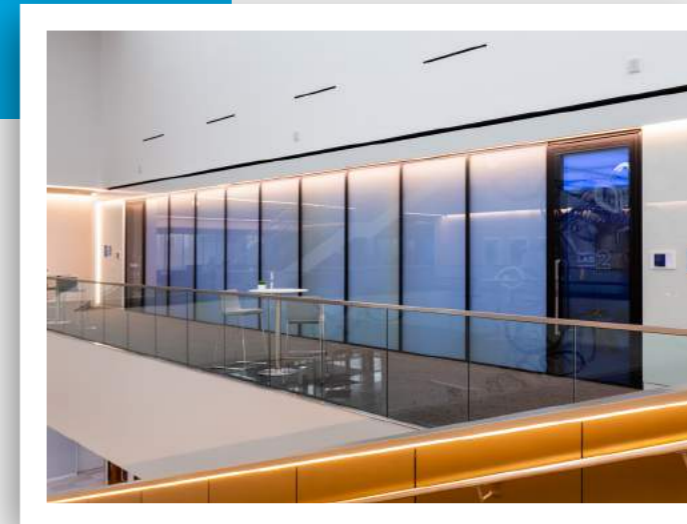
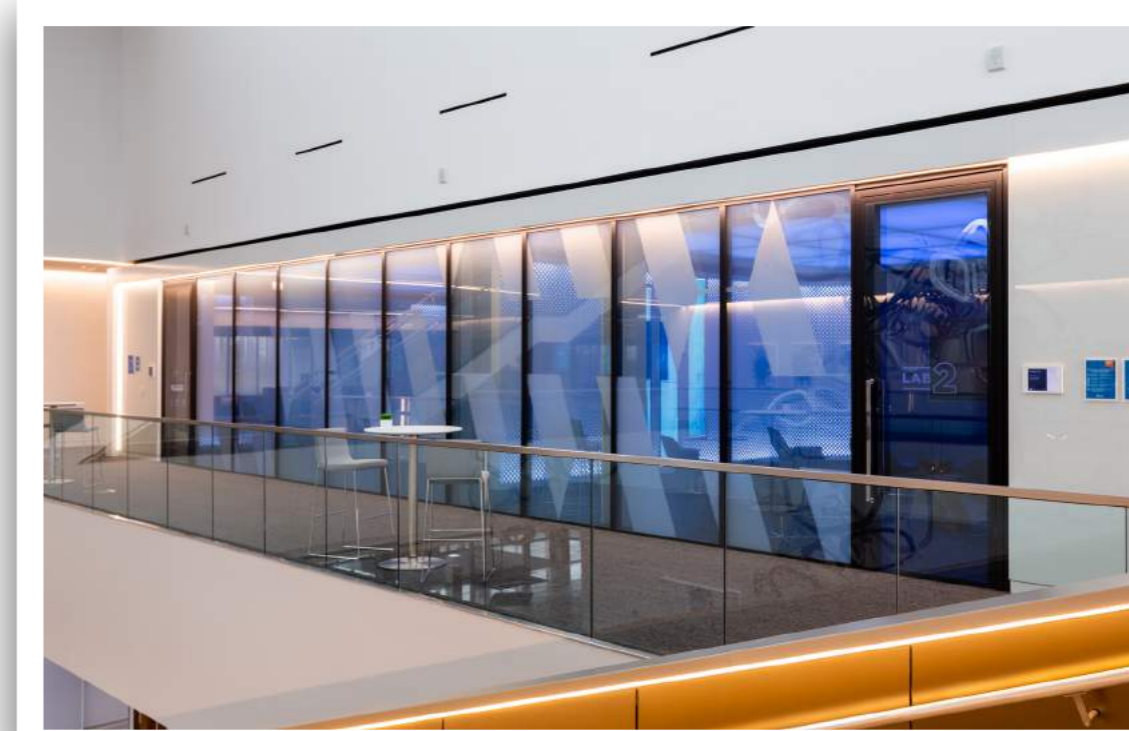
Access to natural light and views is proven to increase mental function, memory, and productivity by up to 25%. Creating a space that is comfortable for employees results in higher levels of in-office satisfaction. Depending on the scenario, teams may prefer to work in a private space for focused concentration, or in an open and transparent environment for collaborative brainstorming. Providing the flexibility to adapt a space to suit the needs of individual users, LCG® is a top choice for companies that value their workforce and space.

## Applications

- conference rooms
- executive suites
- private offices
- pods/phonebooths
- welcome areas
- desk dividers
- facades
- ground floor windows
- ground floor doors

## Benefits

- Spaces that can shift instantly for employee preferences
- Privacy or transparency within open concept offices
- White board or projection screen use when opaque
- Create physical boundaries without blocking light or compromising design
- Gain valuable space with use of glass partitions
- A high tech design upgrade for modern businesses
- Easy to clean privacy solution that eliminates traditional fabrics
- Access to natural light without compromising privacy or views





## Retail

Visual merchandising with smart glass creates new opportunities to excite and capture shoppers. Paired with projection, Gauzy LCG® technology allows retail stores to make the most of valuable storefront windows to capture audiences' attention.

Digital signage welcomes a new era of displays, removing the need for traditional signage. With a one time investment, LCG® creates a versatile display with instantly switchable content that can be rolled out globally for consistent messaging.

Increase footfall by utilizing windows to display vibrant ads that appear and disappear to create an engaging experience for shoppers without blocking merchandise.

### Applications

- Storefronts
- In store displays
- Dressing rooms
- Check out and register areas
- Product rolls outs
- One time events
- Corporate offices
- Confidential spaces
- Visual merchandising

### Benefits

- Instantly capture shoppers with vibrant advertisements for increased footfall
- Allow shoppers to see products and atmosphere inside your store when transparent
- Custom shapes and sizes of film or glass create the most unique windows possible
- Save time and money associated with replacing traditional signage
- Quickly modify content with digital signage



# Residential

Supporting sleek versatility, LCG® enhances a homes interior and architectural design with a distinctive technology focused upgrade that contributes to comfort and convenience for a sense of solitude and ease in personal sanctuaries.

Complimenting diverse decorative styles, smart glass brings practical functionality and aesthetics to different rooms in a home. Easily connected to smart home automation systems like Alexa and Lutron, LCG® supports fully integrated homes for complete control. Bringing natural light, dynamic shading, views, and privacy to luxury residential projects, Gauzy is a standout feature that new homeowners or renovators appreciate.



### Applications

- Bathrooms
- Showers
- Front doors
- Bedroom windows
- Skylights
- Windows or door facing neighbors or the street
- Home offices
- Bar areas and wine rooms
- Safe rooms
- Home entertainment centers

### Benefits

- Disperse natural light between spaces for an open atmosphere
- Unified integrations with standard or custom smart home systems
- Create flow through floor plans without sacrificing privacy
- Replace thick studded walls with low profile glass partitions
- Dynamically tint windows and skylights while maintaining views
- Program LCG(R) to switch according to time of day or predefined user preferences for full smart home integration



## Hotels

Building and designing spaces that appeal to different types of travelers relies on selecting materials that emphasize the most highly valued elements of a stay including comfort, cleanliness, and a quality in room experience.

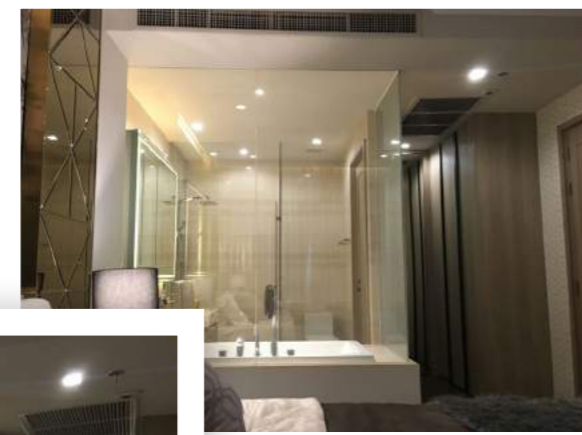
Complimenting diverse design directions, LCG® provides a modern and sophisticated shading and privacy solution that contributes to creating a memorable experience. Eliminating the need for fabric curtains that are costly and laborious to properly clean, hotel operators bottom line and operations benefit from utilizing easy to clean LCG® in interiors and facades. PDLC provides secure privacy for enhances comfort in a public space, while SPD allows for dynamic shading with a view, a highly valued benefit when guests pay premium price for a scenic room.

### Applications

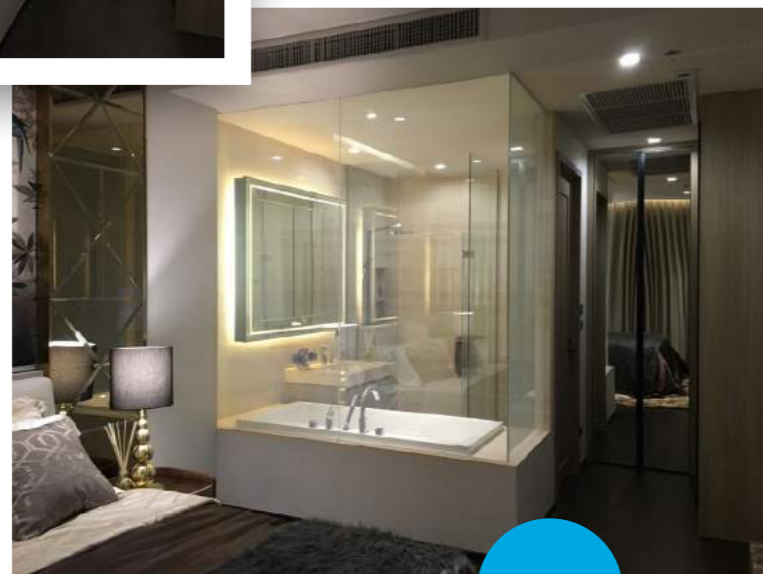
- Convention halls
- Retail store fronts
- Business centers
- Glass elevators
- Skylights and Atriums
- Bathroom enclosures
- Partitions between sleeping and common areas
- Lobbies
- Spas
- Gyms

### Benefits

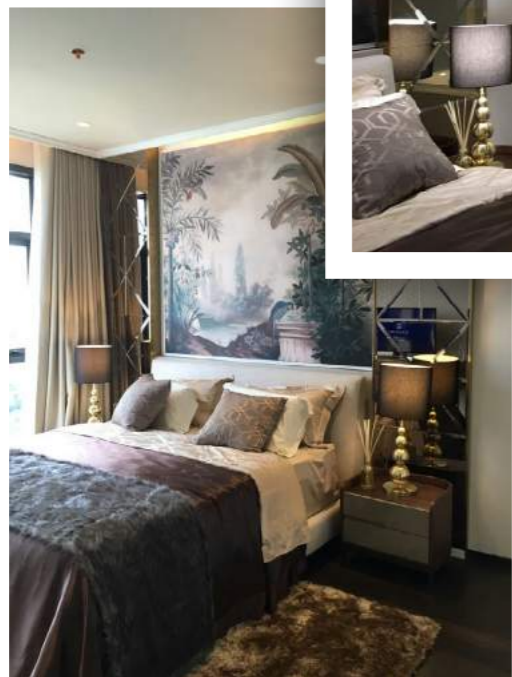
- Reduce HVAC costs when utilizing Solar PDLC
- Create light filled rooms that feel more spacious
- Gain valuable space with low profile glass partitions
- Maintain sleek designs without bulky shades and curtains that hold germs
- Pair with projection in common spaces to leverage advertising and guest communication
- Choose standard or custom patterns for a truly unique design element unique to a hotels theme
- Creates a modern and memorable design upgrade travelers appreciate



OFF



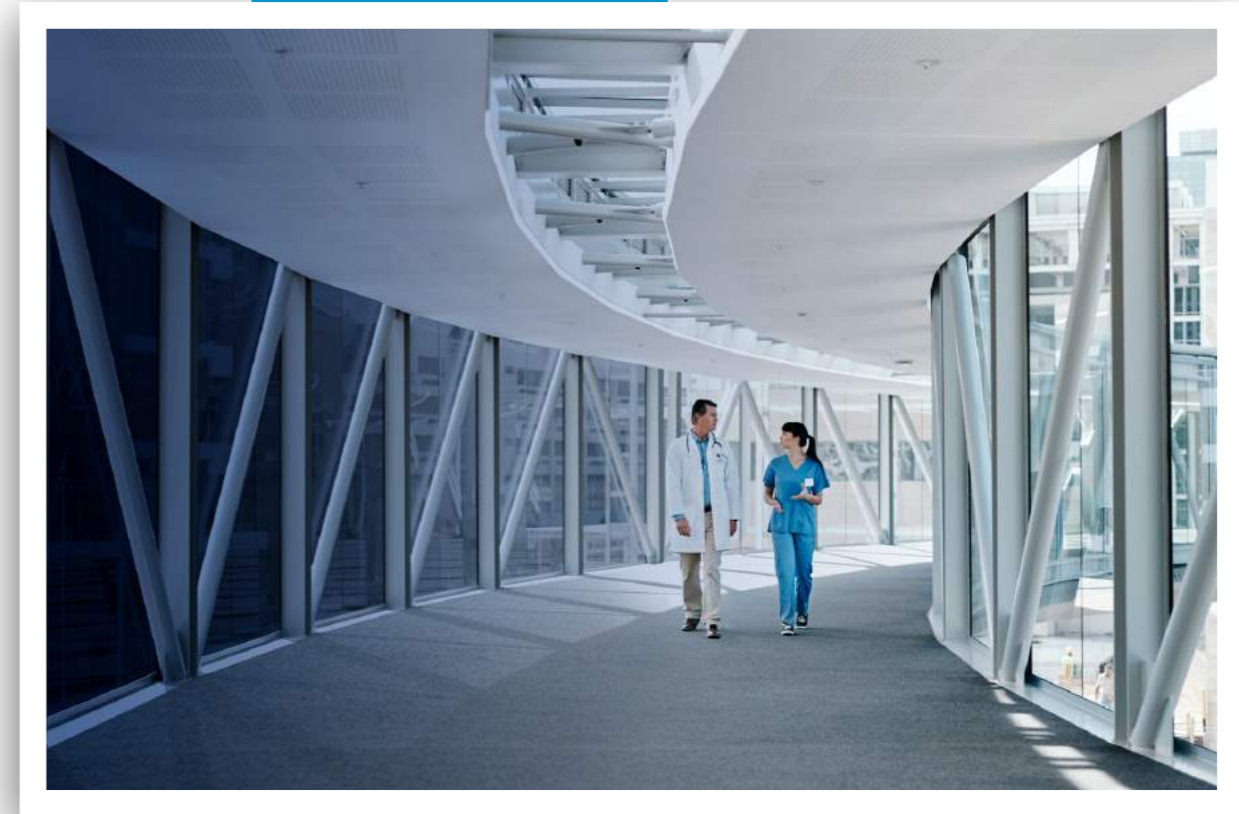
ON



# Hospitals

Safety standards in healthcare environments are constantly evolving. Innovative building designs and smart materials can help facilities adapt faster, better treat patients and ensure the safety of staff, patients, and visitors.

Eliminating the need for HAI harboring fabrics used for privacy and shading, PDLC and SPD technologies support light filled privacy, shade with a view, and sound isolation for greater comfort and enhanced wellbeing that contributes to faster healing. Able to be controlled with motion sensors or from a central station, doctors and nurses can reduce the amount of interaction with touchable surfaces, and can easily check on patients with minimal disruption.

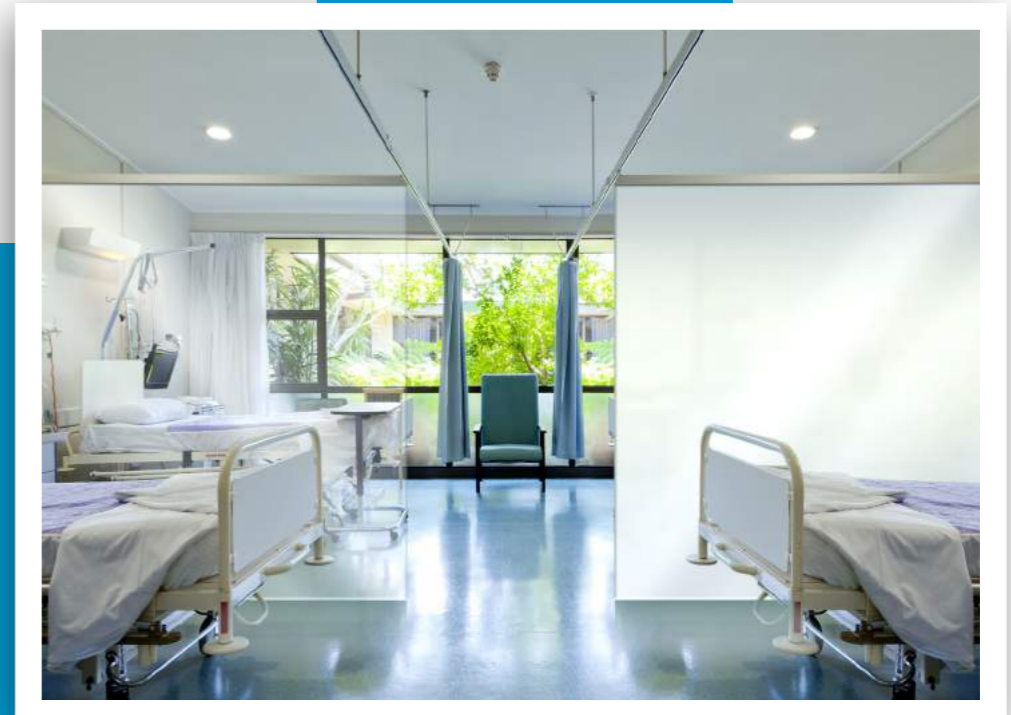


## Applications

- Private patient rooms
- Dividers in shared patient rooms
- Corridor facing rooms
- ICU's
- Neonatal facilities
- Corporate offices and conference rooms
- Waiting areas

## Benefits

- Easy to clean and sterilize
- Eliminate fabric curtains that spread HAIs
- Monitor patients without entering a room
- Increase access to light for increased wellbeing
- Sound reduction and safety with tempered glass
- Create agile designs that can easily convert use of rooms
- Supports EBD philosophy while upholding aesthetics



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# WHY SPECIFY GAUZY

Developed and manufactured with the philosophy that every molecule matters, our films exhibit the best optical, mechanical, and electrical performance in the industry. Supported by a global distribution network of specially trained and certified glass fabrication and film installation partners, choosing Gauzy allows for a full spectrum of glass (or polycarbonate) requests.

[Specifying Gauzy](#) is a long term solution that provides customers advanced technologies that outfit future facing designs with the most reliable smart materials.

## Choosing Gauzy Means:

- A broad range of reliable products
- Industry leading performance
- Purchasing from a trusted and reliable manufacturer
- Working with a globally trained network of professionals that provide localized production and services
- Dedicated and accessible account managers and customer support
- Aligning with a pioneering technology that is defining a new era in high performance glass

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# WE STAND BY OUR PRODUCTS

Gauzy's films have the best optical and mechanical performance in the industry with unparalleled durability, lasting upwards of 18 million on/off cycles and 10,000 constant 'on' hours. We are committed to innovation and the ongoing development of all our product lines, resulting in light control technologies that exceed market expectations.

Committed to ongoing innovation and precise manufacturing, Gauzy has dedicated R&D and proprietary production facilities for each technology, ensuring quality control at each step of production and the most innovative products in the market.

Gauzy is ISO 9001 compliant worldwide, and all of our hardware is CE and UL certified. Each film manufactured by Gauzy is tested on our proprietary ATE system and packed with care for safe delivery.

Gauzy is the world leader in the development and manufacturing of Light Control Glass (LCG®) Technologies. With a global distribution channel and a network of certified partners, Gauzy is trusted by leading brands worldwide, offering Smart Glass technologies to a variety of industries.

## Gauzy HQ

14 Hathiya Street  
Tel Aviv – Yafo, Israel 6816914  
+972 72 250 0385

## Gauzy GmbH

Buchenstr. 2  
72172 Sulz am Neckar – Germany  
+49 (0) 7454 980 9500

## Gauzy USA

840 F Avenue #104  
Plano, TX 75074  
+1 214 501 2469

## Gauzy China

Room 101 Building 8 No.111 QiLianShan Road  
PuTuo District, ShangHai, 200333  
+86 13728994375

