

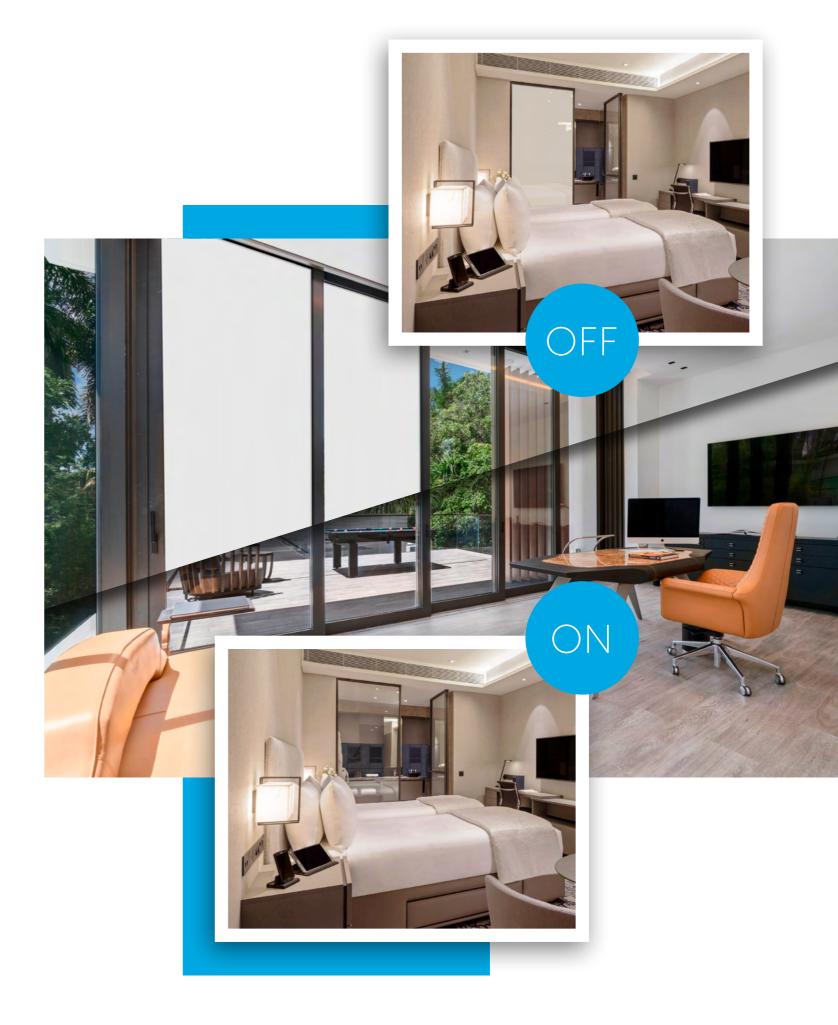
LIQUID CRYSTAL TECHNOLOGIES

Gauzy's liquid crystal based products allow glass to switch from opaque to controlled levels of transparent in less than 0.1 seconds.

Controlling various types of light, paired with switchable features, liquid crystal LCG[®] supports:

- instant privacy or an open atmosphere
- solar IR reflection for temperature control
- projection compatible for HD displays when opaque, and full transparency when not in use

All of this - with less electricity than it takes to power a laptop.



Laminated

PDLC LCG[®] Technology

Gauzy's liquid crystal based laminated LCG® smart glass is available in indoor and outdoor grades, in varying types and sizes. 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 constant hours 'on' with no need for a break, Gauzy's PDLC is the most reliable in the market.

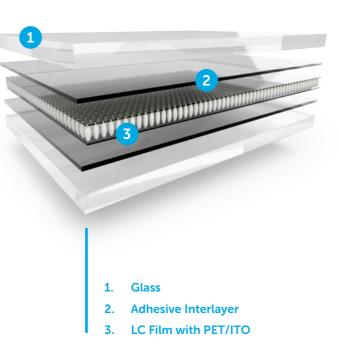
All PDLC films are available with invisible laser etched patterning for blinds or custom dynamic designs.

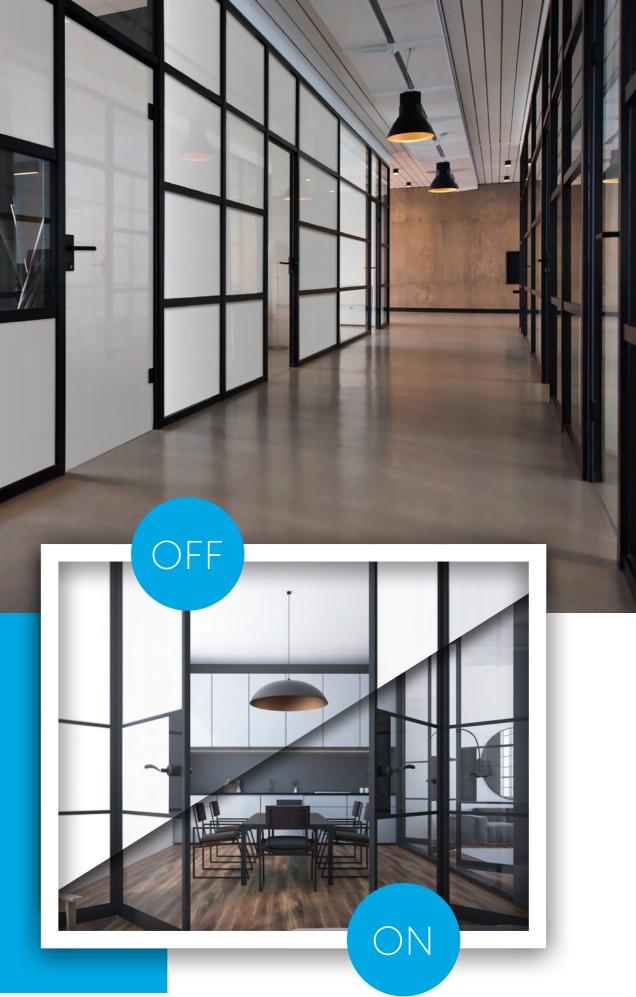
Gauzy's PDLC films are defined by ultra low haze, fast switching times, and low energy consumption.

Product Types:

- White
- Grey
- High Temperature White
- High Temperature Grey
- IR Solar Control White

Specifications:	Wh	nite LC	D	ark LC	White	LC HT	Dark	LC HT	
Film Optical Perfomance									
Attribute	OFF	ON 1	OFF	ON 1	OFF	ON 1	OFF	ON 1	
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) 2	2.5%		2.7%		3.0%		3.5%		
Color Grade	L* = 85		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		
Film Technical Properties									
Switching Time	10ms			5ms					
Lifecycle	18 Million +								
Operating Temperature	-20°C to +70°C				-20°C to +90°C				
Power Consumption	1-3W/m2								
Film Thickness 3	375µ							1 Optical Performance	
Roll Widths(mm) 4	1200, 1500, 1800 1200, 1500			1200, 1500, 1800 1200, 1500		500	measured using squa		
Cut-to-Fit	Custom Sizes, Shapes, Busbar Position; Holes and Notches						wave signals provided		
Interlayer Compatibility	PVB, EVA, SGP, TPU								by Gauzy PDLC Controllers
Glass Types	Annealed, Tempered, Clear, Low Iron/Ultra Clear, IG Units, Other							2 Haze tested on 'haze-gard i', by BYK.	
Patterning Available	Yes								
Storage Conditions	-20°C to +60°C, <50% Humidity							Laminated with PVB.	
Grade	Indoor				Outdoor				Haze may vary based on interlayer. Results
Electrical Performance									reported for Indoor a
Controller Types	Mini, Flex, Multiplex, Custom							25°C; HT at 80°C.	
Operating Modes	Fade, ON/OFF, Dimming							3 Film thickness may va	
Operating Voltage	48-70VAC							4 Films can be ordered	
Operating Frequency	25,32,50Hz							rolls or cut-to-fit she at any length	





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Laminated

PDLC IR Solar Control LCG® Technology

Gauzy's patented Solar Control PDLC technology blocks IR, UV, and Visible Light supporting temperature control and glare reduction for cooler and more comfortable spaces. Ideal for projects focusing on eco-conscious 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 unsightly traditional shading solutions.

Specificat	ions:		White Solar LC				
Film Optical Perfo	mance						
Attribute		OFF	ON 1				
Parallel Light Transmittance		3.2%	73%				
VLT (Total Transmittance)		60%	75%				
(0))	25°C	3.3%					
Haze (ON) 2	80°C	3.9%					
Color Grade	L*	75.86					
	a*	-1	-1.01				
	b*	8.77					
Film Technical Pro	perties						
Switching Time		10ms					
Lifecycle		18 Million +					
Film Operating Temperature		-20°C t	-20°C to +90°C				
Film Power Consumption		1-3\	1-3W/m ²				
Film Thickness 3		325µ					
Max Film Width (mm) 4		1200, 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					
Film Solar Perform	ance 5						
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 ²		1.31	1.31				
ΔT(°C) 6		Up to 15°C					
Energy Saving		For every degree reduced, Gauzy saves approx. 7% on air conditioning costs					
Electrical Performa	ance						
Operative Controllers		Mini, Flex, Multiplex, Custom					
Operating Modes		Fade, ON/OFF, Dimming					
Operating Voltage		48-70VAC					
Operating Frequency		25,32,50Hz					

¹ Optical Performance measured using square wave signals provided by Gauzy PDLC Controllers

2 Haze tested on 'haze-gard i', by BYK, laminated with PVB processing. Haze performance may vary if laminated with other types of interlayers

 $_{3}$ Film thickness (µ) may vary

Films can be ordered in rolls or cut-to-fit sheets at any length

5 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 accomodate cooling times of PDLC and glass

⁶ Gauzy Solar LCG® 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

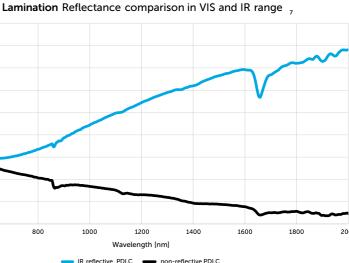
7 Above 800 nm, IR PDLC films reflectance range increases and achieves ~78%, ,at 2000 nm, while the regular PDLC films present ~5%



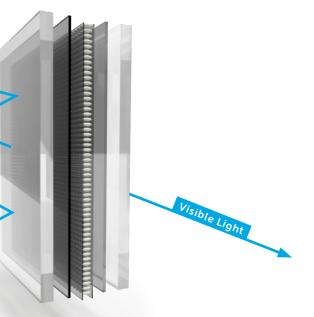
60

3

IGH







LCG[®] PDLC Controllers

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

With square wave signals, controllers ensure ultra high transparency, allow films to stay on 24 hours a day, and protect smart glass against power surges.

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:

СОМ

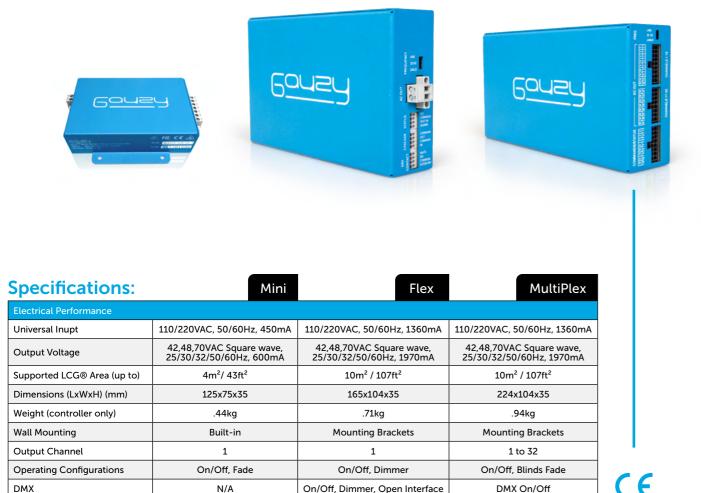
Cascade

- On, Off, Dimming, Fade transitions
- Small form factor and footprint for easy installation
- Large drive capacity
- Advanced protection features for better ROI and MTBF
- Ultra-low voltage reduces up to 40% of power consumption

N/A

N/A

• WIFI/DMX/RS-485 compatible for easy connection to automation systems



On/Off, Dimmer, Open Interface

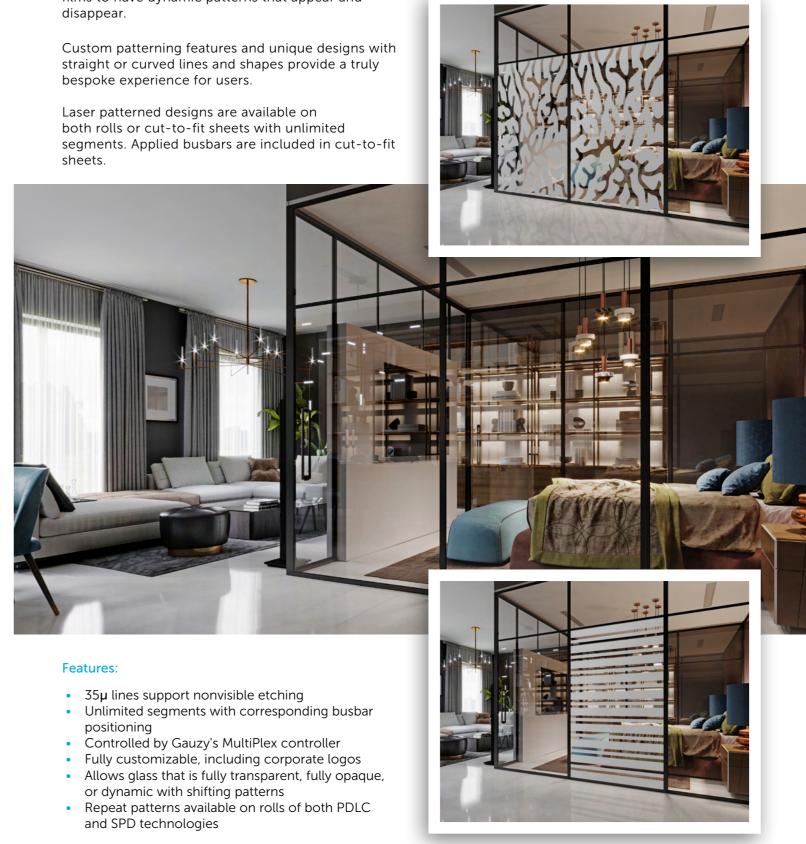
0-10VDC

On/Off, Fade

N/A

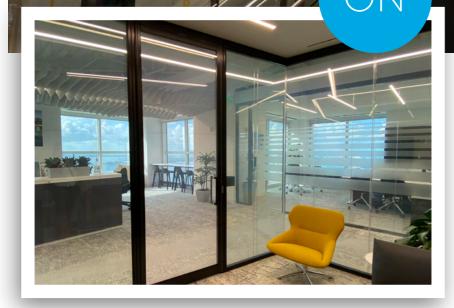
Laser Patterned Designs

Gauzy's proprietary laser patterning machine etches lines directly into the PET's ITO coating, creating segmented films with nonvisible lines. This allows films to have dynamic patterns that appear and



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PDLC TECHNOLOGY



OFF

Gauzy's Advantage

- Ultra Low Haze
- 18 million+ on/off cycles and 10,000 constant "on" hours with no break

DOW

- Compatible for lamination with any type of glass, large panels and curved glass
- Segmenting and patterning allows privacy control in selected areas of glass
- Gauzy's proprietary controller prevents burnout, and allows glass to be kept on 24/7
- 0-10v, DMX, or RS485 integration available for home automation systems

Industries using Gauzy LCG® Products



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<u>Gauzy</u> is the world leader in the development and manufacturing of Light Control Glass (LCG[®]) Technologies. With global distribution channels and a network of certified partners, Gauzy is trusted by leading world brands and offers Smart Glass solutions for various industries.

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