

SMART PRIVACY GLASS

SMART-HEALTHY-GREEN



- Imagine a Glass that switches from clear to milky white in a flick of a button
- transforming open space to a private room on demand in less than a second.



ABOUT US —

Smart Films International (“SFI”) is a developer and manufacturer of Dynamic Smart Glass Solutions for Architecture and Automotive markets. Smart Film, also known as Switchable Film or Privacy Film is an innovative solution for Privacy on Demand. The Smart Film switches between ‘milky’ white and transparent by applying electrical voltage.



Space Customization :

Switch from open space to private zone upon demand.



Hygienic :

Glass is anti-bacterial, easy to clean with sanitized materials in contrary to curtains and blinds.



No Maintenance :

After installation there is no maintenance requirements.



Increase Energy Efficiency:

Maximize natural light, allows daylight transmission, reducing electrical lighting costs.



UV Protection :

IR filters will keep your space cooler in summer and warmer in winter time.



Comfort Space :

IR filters will keep your space cooler in summer and warmer in winter time.



SMART GLASS

TECHNICAL SPECIFICATION

ITEM	ON	OFF
Visible Light Transmission	81%	10%
Haze	4%	95%
Viewing Angle	≥150 degree	-
IR Blocking	40%	90%
UV Blocking	≥98%	≥98%
Operating Voltage	48-65 VAC	-
Frequency	50~60HZ	-
Current	100 mA Sq. m (0.9 mA Sq. ft)	-
Power Consumption	<5W/Sq. m (<0.46W/Sq. Ft)	-
Switching Time	<200ms	<10ms
Total Glass Thickness	10mm, 12mm, 14mm, 22mm (3/8", 1/2", 9/16", 14/16") or customized	
Glass Structure	Triplex, IGU or customized	
Max Size	2000 by 6000mm (78.7" by 236.2")	
Colour	White, Grey, Black	
Working Temperature	-20°C~ 70°C (-4°F ~ 160°F)	
Storage Temperature	-20°C~ 70°C (-4°F ~ 160°F)	
Life Time	>20 Years	

HOLLOW SMART GLASS (IGU)

TECHNICAL SPECIFICATION

ITEM	ON	OFF
Visible Light Transmission	>74%	<4%
IR Blocking	50%	93%
UV Blocking	≥97%	≥99%
Glass Thickness	23 mm or customized	

ADHESIVE SMART FILM

TECHNICAL SPECIFICATION

ITEM	ON	OFF
Visible Light Transmission	88%	11%
Haze	3%	98%
Viewing Angle	≥150 degree	-
IR Blocking	35%	90%
UV Blocking	≥99%	≥99%
Operating Voltage	48-65 VAC	-
Frequency	50~60HZ	-
Current	100 mA Sq. m (0.9 mA Sq. ft)	-
Power Consumption	<5W/Sq. m (<0.46W/Sq. Ft)	
Switching Time	<200ms	<10ms
Max Size Interior	2000mm by no limit	
Max Size Exterior	1500mm by no limit	
Colour	White (Grey and Black spec below)	
Working Temperature	-20°C~ 70°C (-4°F ~ 160°F)	
Storage Temperature	-20°C~ 70°C (-4°F ~ 160°F)	
Life Time	>20 Years	

ADHESIVE SMART FILM

TECHNICAL SPECIFICATION

LIGHT GRAY

ITEM	ON	OFF
Visible Light Transmission	57%	>5%
IR Blocking	30%	90%
UV Blocking	100%	100%

DARK GRAY

ITEM	ON	OFF
Visible Light Transmission	48%	5%
IR Blocking	44%	90%
UV Blocking	99%	100%

BLACK

ITEM	ON	OFF
Visible Light Transmission	10%	0%
IR Blocking	93%	100%
UV Blocking	100%	100%

PNLC REVERSE SMART FILM

TECHNICAL SPECIFICATION

ITEM	ON	OFF
Visible Light Transmission	88%	
Haze	92%	10%
Operating Voltage	80 VAC	-
Frequency	50~60HZ	-
Power Consumption	~5W/Sq. m (~0.5W/Sq. Ft)	
Response Time	<500ms	<500ms
Max Size Width	1450mm by no limit	
Colour	White (Grey and Black spec below)	
Working Temperature	-10°C~ 60°C (-4°F ~ 160°F)	

MARKETS





CORPORATE

Switch from co-working to a private space, in a flick of a button, enjoy both worlds.

- Conference Room
- Meeting Room
- Showroom
- Board Room
- Glass Partition
- Presentation Room



CONFERENCE ROOM



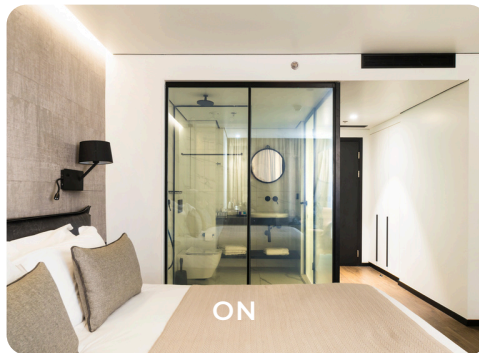
MEETING ROOM



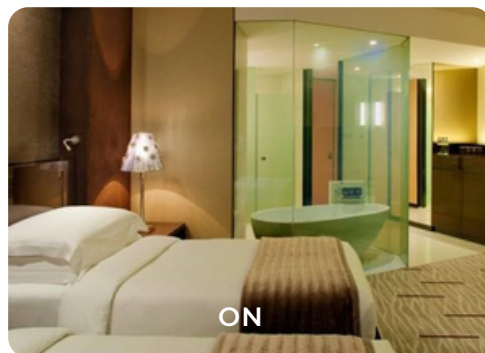
HOSPITALITY

Enjoy the benefits of space customisation, get the most out of your property.

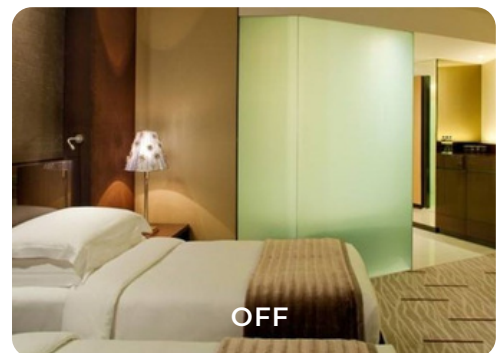
- Bedrooms Partition
- Shower Enclosure
- Bathroom Window
- Conference Room
- Rooms Divider
- Curtain Wall



BEDROOM PARTITION



SHOWER ENCLOSURE





HEALTHCARE

The most hygienic privacy on demand solution in your clinic, with no maintenance.

- Emergency Room
- Intensive Care Unit
- Newborn
- Dialysis Room
- Triage Room
- Hospitalisation Room



NEWBORN



INTENSIVE CARE UNIT



RETAIL

Smart Glass will make sure that everyone will talk about your business.

- Fitting Room
- Bank Teller
- Smart Toilets
- Private Room
- Store Front
- showroom



COSMETICS



RESTAURANT





RESIDENTIAL

We are here to bring your dream house to life with Smart Privacy Glass.

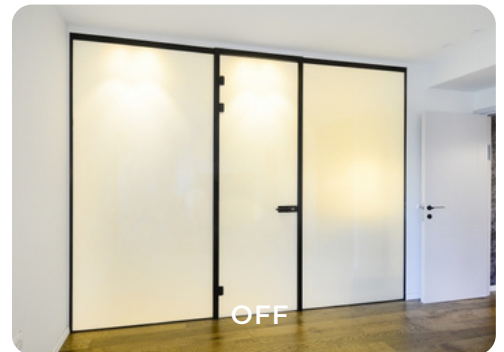
- Home Office
- Skylight
- Divider Window
- Bathroom Partition
- Bathroom Partition
- showroom Enclosure



SHOWER ENCLOSURE



BATHROOM PARTITION



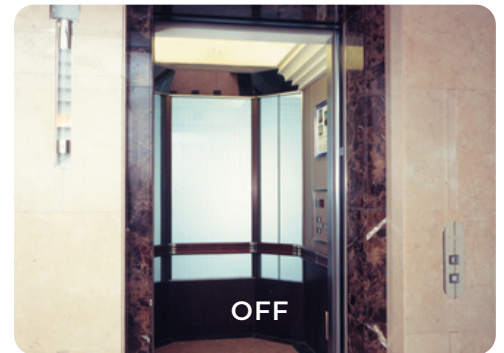
TRANSPORTATION

Control your privacy in a digital way for a comfort traveling experience.

- Minivan Partition
- Marine Glass
- Aircraft window
- Elevator Glass
- Train Partition
- Caravan Window



ELEVATOR



TRAIN



CONTACT US



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