



CONSNEXTPLAN

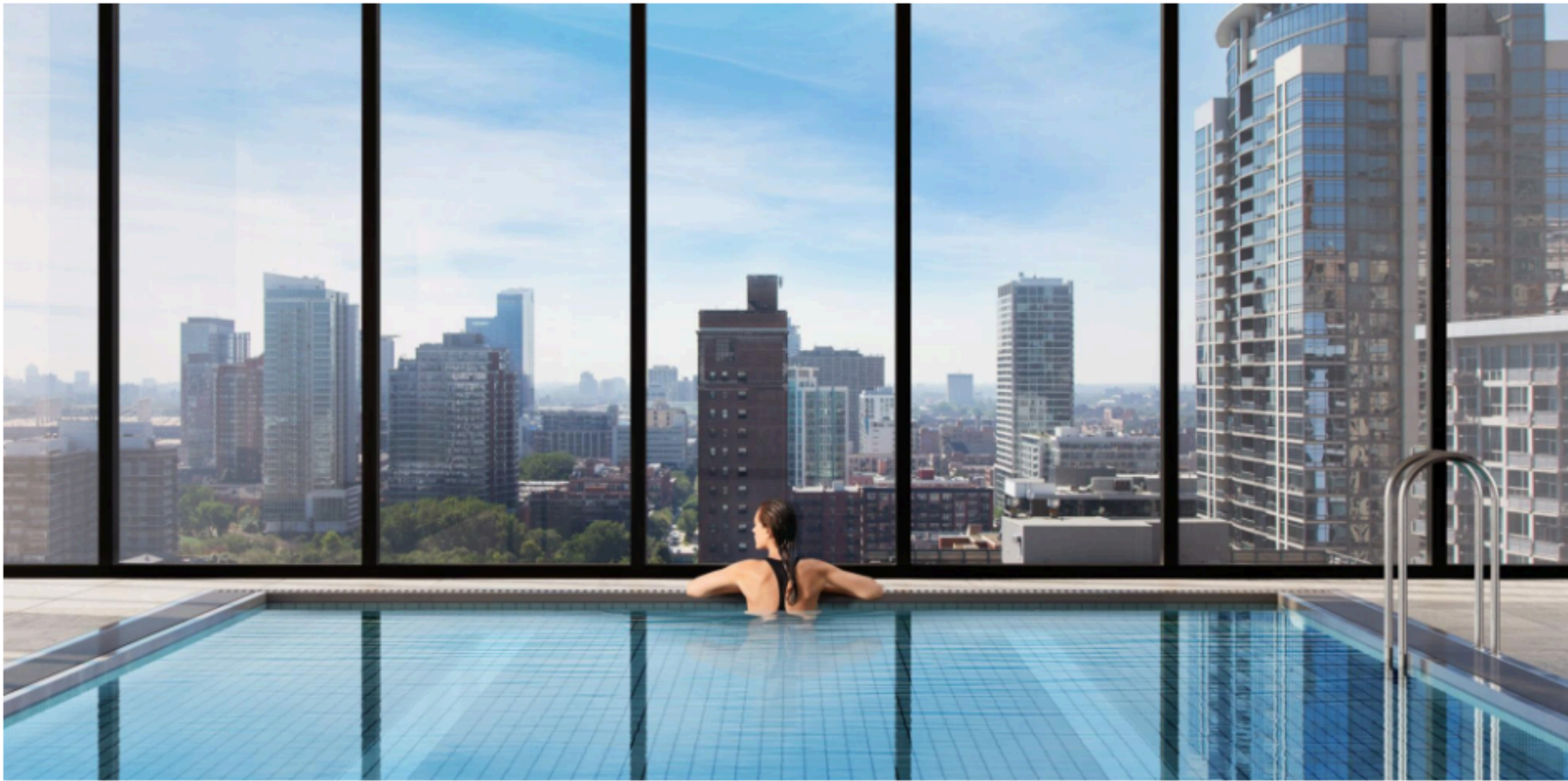
Product Series

01

Smart Film Series

Self-adhesive Smart Film | Laminated Smart Glass

Widely used in offices, hotels, banks, hospitals, shops, clubs, villas and other privacy focused places.

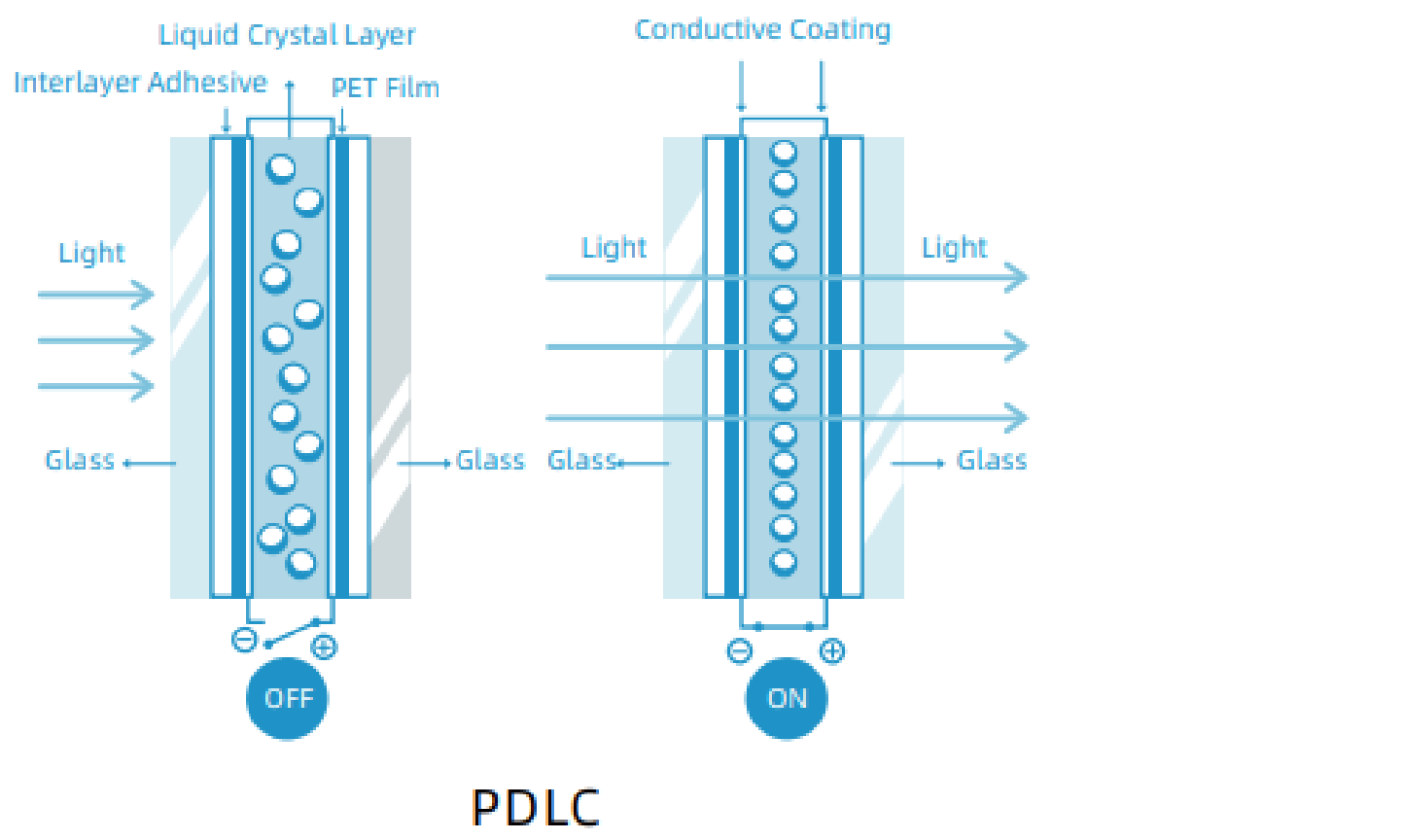


About Smart Film

Smart film is a new type of electronic light control product. The electronically controlled smart film is a liquid crystal/polymer hybrid material injected in the middle of two transparent conductive films.

PDLC film in the absence of an electric field, the electronically controlled smart film is in opaque state.

When an alternating current is applied, the liquid crystal molecules are arranged in an orderly manner, at which point the electrically controlled dimming the film changes from an opaque state (OFF) to a transparent state (ON).



Privacy protection

To protect your privacy and security, you can control it to be transparent or opaque at any time. Make your space more malleable, choose open or private at will.



Security

Even if the glass is broken, the fragments can still be adsorbed on the smart film, which can avoid personal injury caused by broken glass.



Space partition

To protect your privacy and security, you can control it to be transparent or opaque at any time. Make your space more malleable, choose open or private at will.



Anti-noise

Compared with ordinary glass, the anti-noise ability of glass using Assist Smart Film is increased by 20%.



Projection function

Excellent image effects will be achieved. Watch movies through a high-definition projector that multi-touch to the film.



Energy saving

The installation of smart film can effectively reduce the loss of decoration, which can reduce pollution.



Cooling and UV protection

By blocking more than 98% of infrared rays, the heat insulation effect is achieved. At the same time, it blocks more than 99% of ultraviolet rays, protects indoor furniture from fading.



Various control methods

In order to meet your various needs, you can choose your preferred control method: switch control, remote control, mobile app control

CONSNEXTPLAN

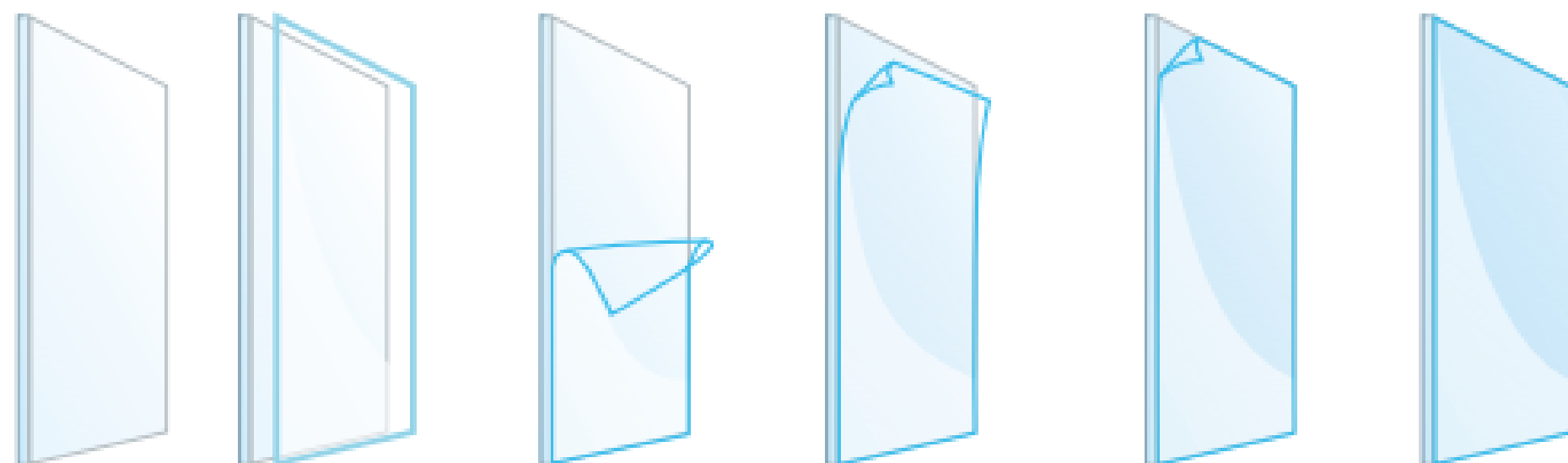
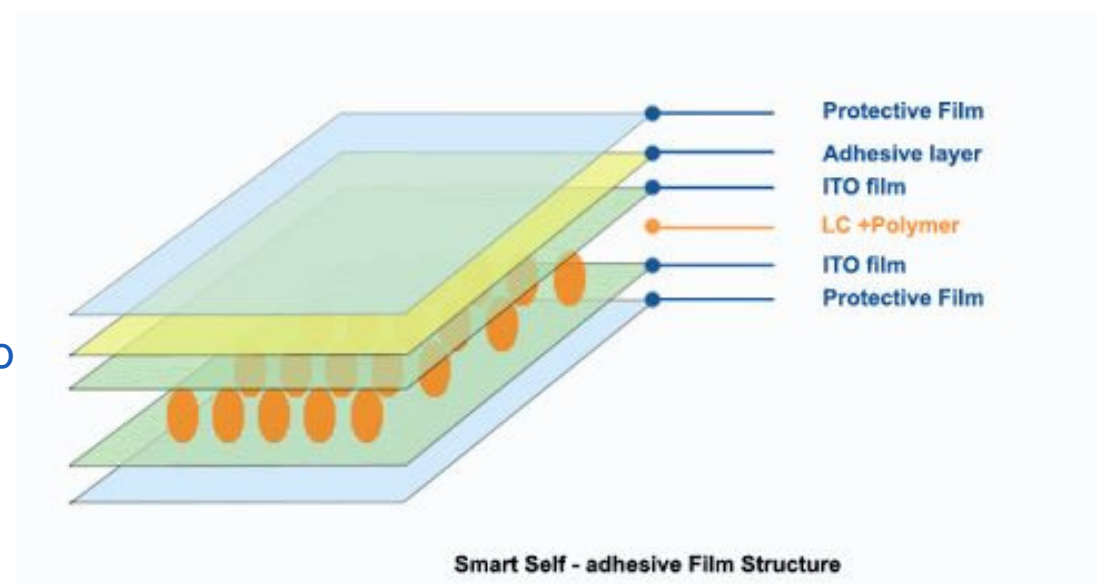
PRODUCT SERIES



Self-Adhesive Smart Film

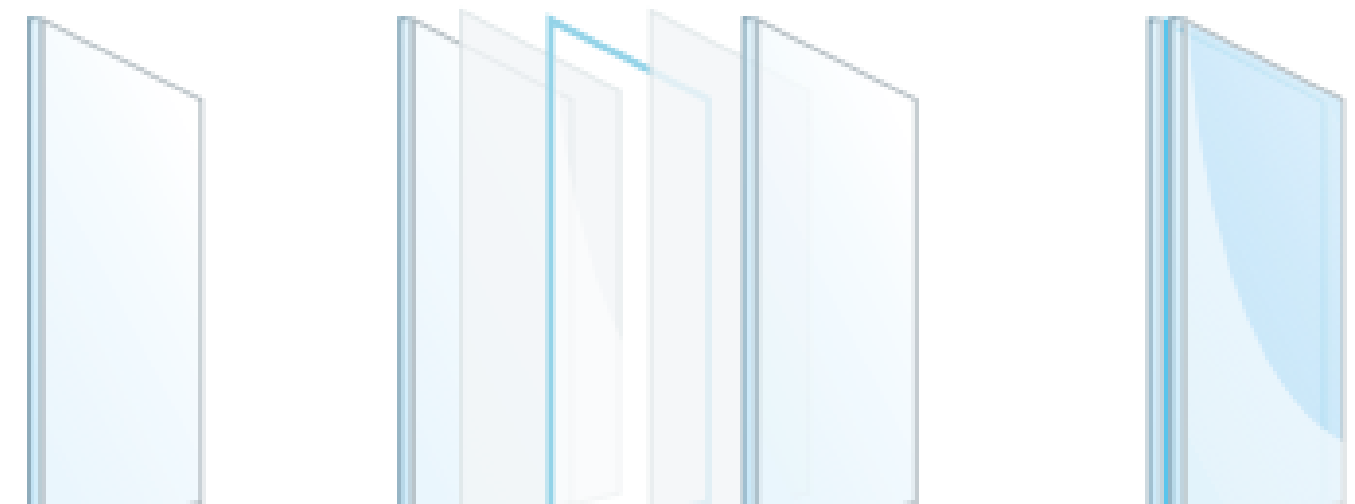
Self-adhesive liquid crystal smart film is covered with adhesive on one side of the smart film, which is used to target glass area.

Note: Self-adhesive PDLC films must not come into contact with water, otherwise they will be scrapped.

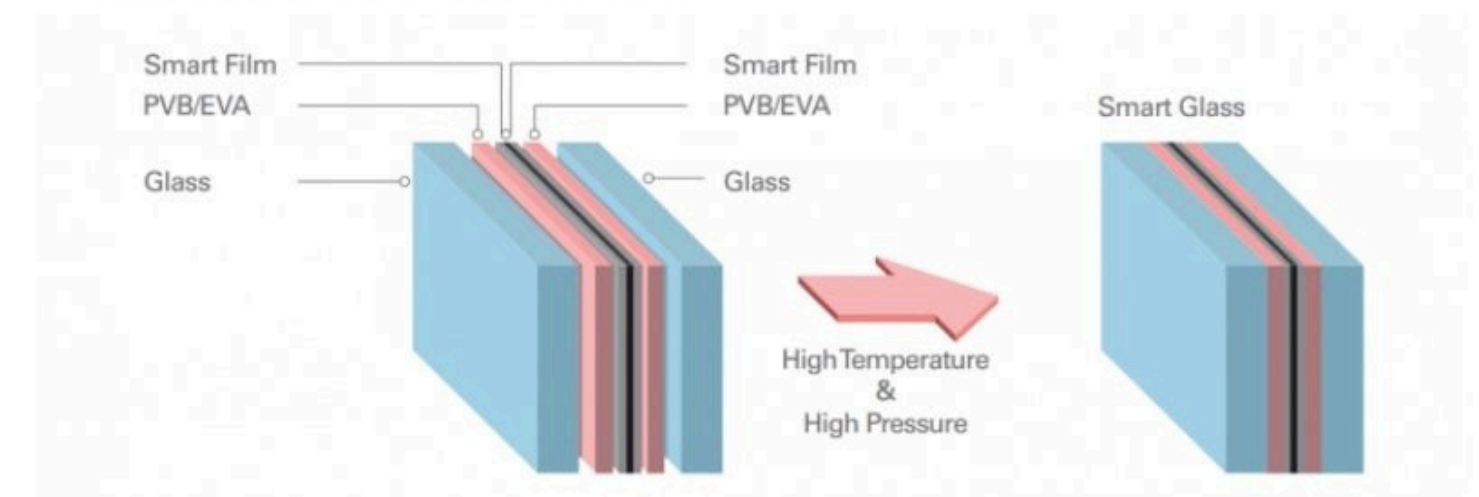


Laminated Smart Glass

Laminated liquid crystal smart film (hereinafter referred to as smart film) is non-sticky on both sides, and can be tightly compounded with flat glass through EVA film to manufacture smart laminated glass.



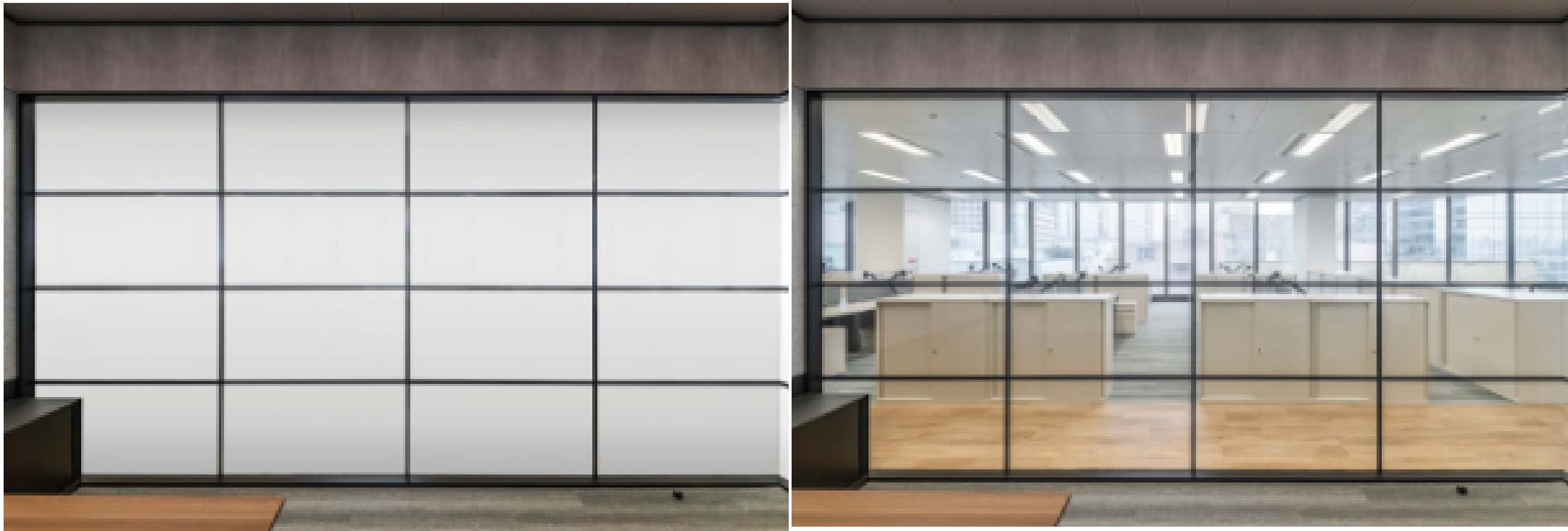
Laminated Smart Glass Structure



Smart Glass Parameter

Parameter set		Mode	Parameter
Optical parameter	180 ° visible light transmittance	(ON)	83%
		(OFF)	>60%
	Parallel transmittance	(ON)	75%
		(OFF)	<2%
	Atomization rate	(ON)	<4%
		(OFF)	96%
	Maximum perspective	(ON)	160°
Electrical parameters	Operating Voltage	(ON)	AC48V ~ 65V/50Hz
	Response Time	(OFF-ON)	<10ms
	Power consumption	(ON-OFF)	<5W/m²

Assist Smart Film is made of high-transparency film developed for smart glass and high-quality automotive-grade float glass, which is processed by advanced laminated glass production technology. It is advanced in technology and excellent in performance. The product has passed various strong tests, ensuring the high quality of the product. When the power is turned on, the total light transmission rate is as high as **83%**, the haze is less than **3%**, when the power is off, the haze is as high as **96%**, and the power consumption is less than **4w/sqm**. The photoelectric performance is excellent and reaches the international advanced level

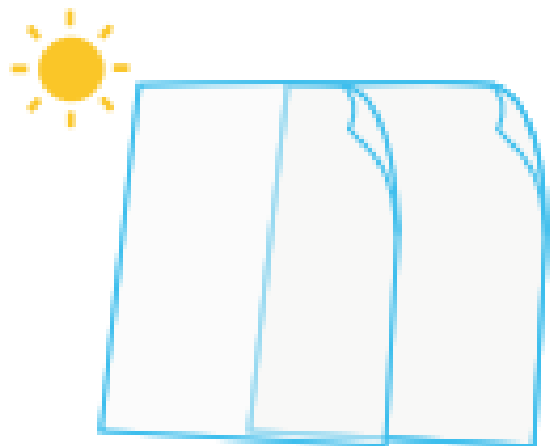
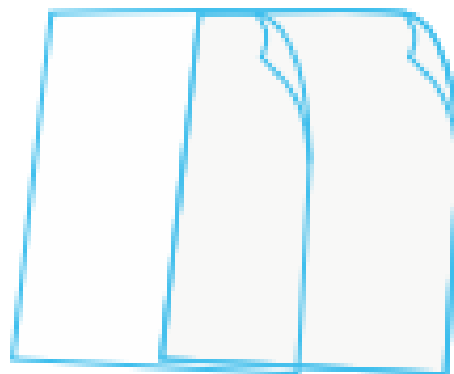
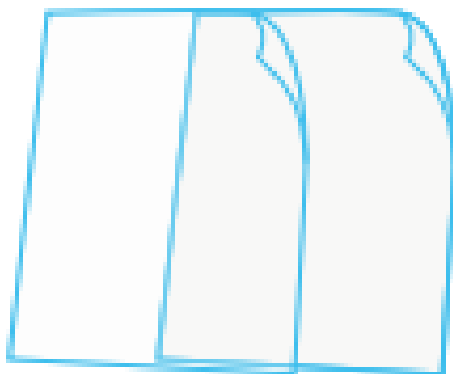
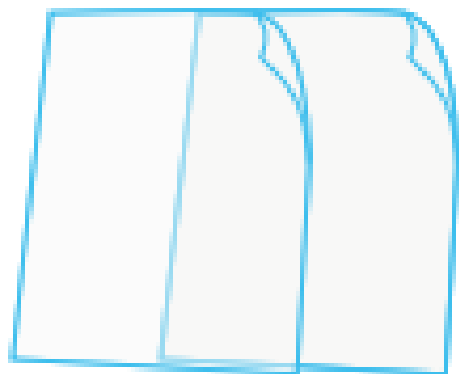


Parameter set		Project	Parameter
Size	Thickness	Glass	Glass thickness×2+2mm
	Max Size	Film	50m x 2m
	Operating temperature	—	-20℃~ 90℃
	Storage temperature	—	-30℃~ 70℃
Working frequency		—	30Hz ~ 400Hz
Switch parameters		—	> 2 Millions



Product Accessories

Assist smart glass transformer power supply

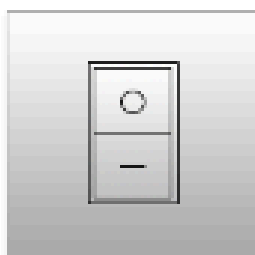


THE MAIN TECHINICAL
PARAMETERS

Input AC	220V
Output AC	60V
Frequency	50-60Hz
Rated power	<5W/sqm
Scope of application	Limited to smart glass smart glass film
Features	Has moisture-proof protection short circuit protection function

Control Methods

Switch Control
Remote Control
Mobile App Control



Main Application



- 1 Office meeting room application
- 2 Business center application
- 3 High-speed rail subway aircraft application
- 4 Bath center bar KTV application
- 5 Factory workshop console laboratory
- 6 Hospital clinic application
- 7 Hotel room application
- 8 Window advertising projection
- 9 Special agency application
- 10 Home interior application
- 11 Station ticket office application

Office Conference Rooms

Experience seamless productivity and enhanced collaboration in your office conference rooms with Smart Glass. With its transparent-to-opaque feature, easily switch between privacy mode and shared screen presentations, while its touch-enabled interface allows for interactive discussions and note-taking, transforming your meetings into dynamic and efficient sessions.



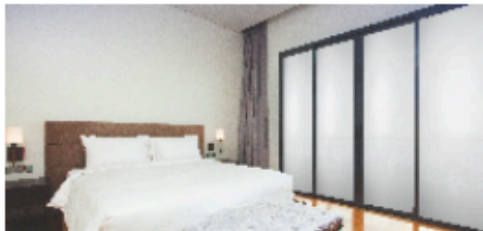
ON



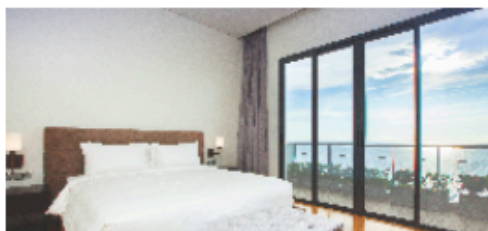
OFF

The Hotel application

From customizable privacy settings to interactive virtual concierge services, Smart Glass offers guests a seamless blend of comfort, convenience, and innovation, while providing hotel staff with an efficient tool for room management and personalized guest interactions. Elevate your guests' stay and exceed their expectations with this state-of-the-art technology that enhances both luxury and efficiency in the hospitality sector.



OFF



ON



Projection touch

When the smart glass power is off, control the ambient light and project it through a projector can make the smart glass display clear image, and combined with the infrared touch frame to form a large-sized "tablet computer" (can be made up to 130 inches). Created a new field of projection. Suitable for meeting, science and education configuration.

180 degree viewing, no image distortion.
No glare from traditional lighting
Saves a lot of useful space instead of expensive LED displays



Special institution & Service Counters

Intelligent smart glass has efficient openness and privacy, can be used in prison visit rooms, interrogation rooms, isolation rooms etc. And next, smart glass creates a new field of modern bank openness and privacy functionality. The smart glass partition for bank counter, can easily switch from transparent state for service time and the atomization state for off time.



Elevator application



Special perspective lift
Advantages: Elevator glass changes transparency can make people feel safer

The station ticket office applications

In some places such as public area and stations, you can also customize some privacy spaces. For example: ticket window, nursing room, emergency room, etc. Smart Glass enables ticket agents to provide fast ticketing process and enhancing customer satisfaction.



Product Comparison



Smart glass	Blinds	Roller blind
Advantage		
Clear and bright, clean and simple, durable, soundproof, looming, and can be individually designed	Low Price	—
Low Price		
Cost-effective	Not clear and bright, single control, difficult to clean, easy to wear down	Single regulation, clean and complex, easy to wear out



Installation

Installing for Doors and Windows (Swing & Sliding)

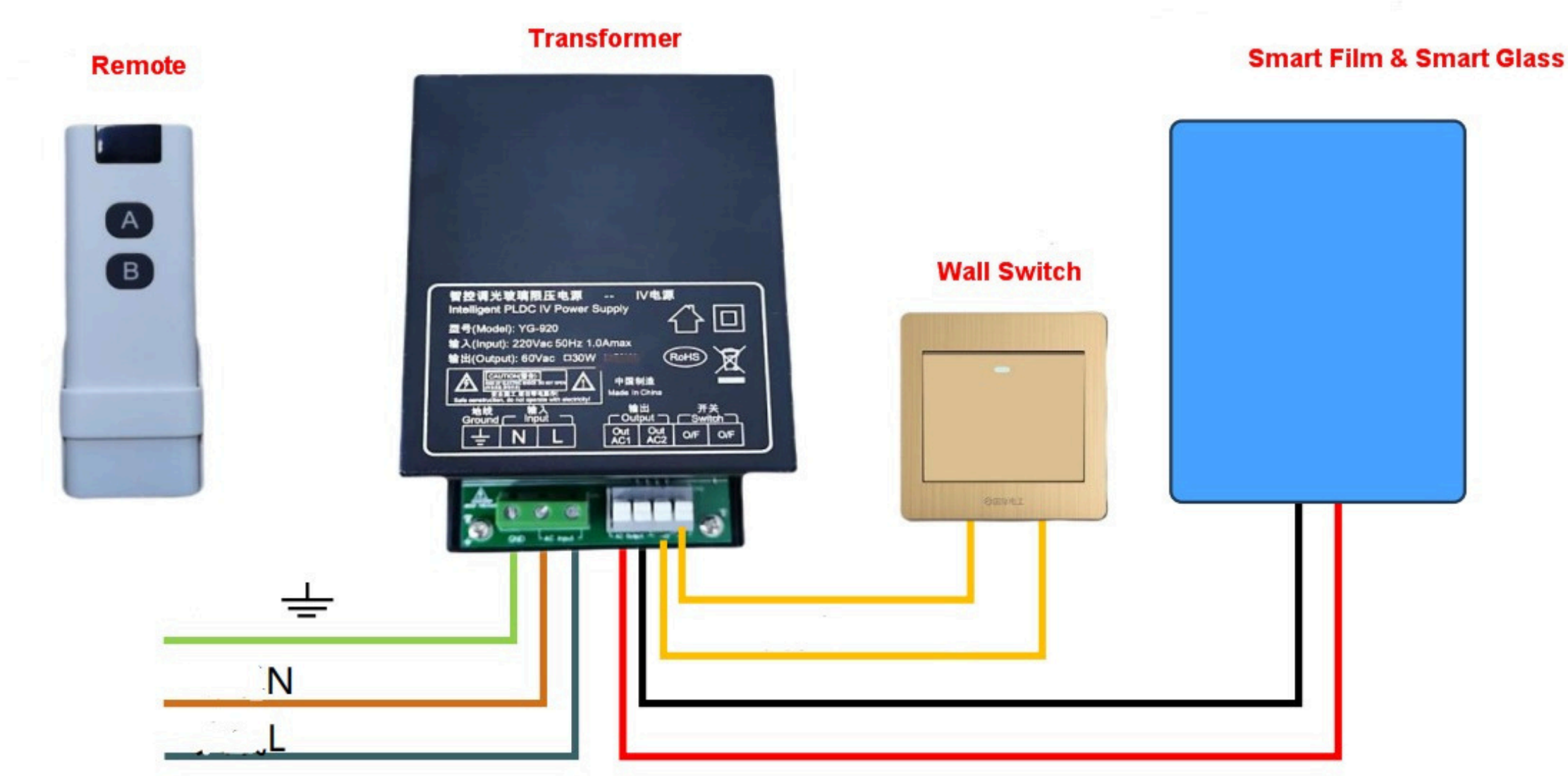
Door loops

for installing smart film in swing doors and sliding doors

A door loop is a mechanical device which provides a robust guideway for cabling between a swing door (the "door leaf") and a door frame.



Door loops are used in cases where electrical components are mounted in the door leaf, like for example a motorized door lock, smart lock, smart film. Since the hinges move during operation, a normal laying of cable would quickly wear out. The door loop also ensures that the twisting of the cables is distributed over a longer cable length, which is decisive for the wear of the cables.



EXPLORE THE DIFFERENCE

MORE INFO :

