

ENJOY SMART LIFE FROM THE FUTURE

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Specialized in Coating&PDLC Smart Glass/Film

PRODUCT BROCHURE



ABOUT US



ZOHE

Zhonghe Science and Technology (Changzhou) Co., Ltd (known as ZOHE). is a high-tech company founded by Jiangsu Chenguang Group. ZOHE specialize in development and application of PDLC, electronics, and energy-saving technology. ZOHE first-class scientific research and technical team partnership with Tsinghua University, Peking University, other well-known universities and scientific research institutions in China developing PDLC, new materials, photoelectric technology, and other related fields. With the "Mutual Benefits" business model, ZOHE have the opportunities service the projects of 2022 Asian Games Command Center and China major banks.

Jiangsu Chenguang Group established in 1989 and have grow into a well known nationwide high-tech enterprise. Specializing in the development and production of coatings for anti-smog natural stone veneer, waterproof, thermal insulation, smart color-change, and nearly 100 varieties of products with 600,000 ton annual production capacity. Chenguang Group was the important partner of the 2010 Shanghai World Expo project.



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ZOHE

SMART GLASS



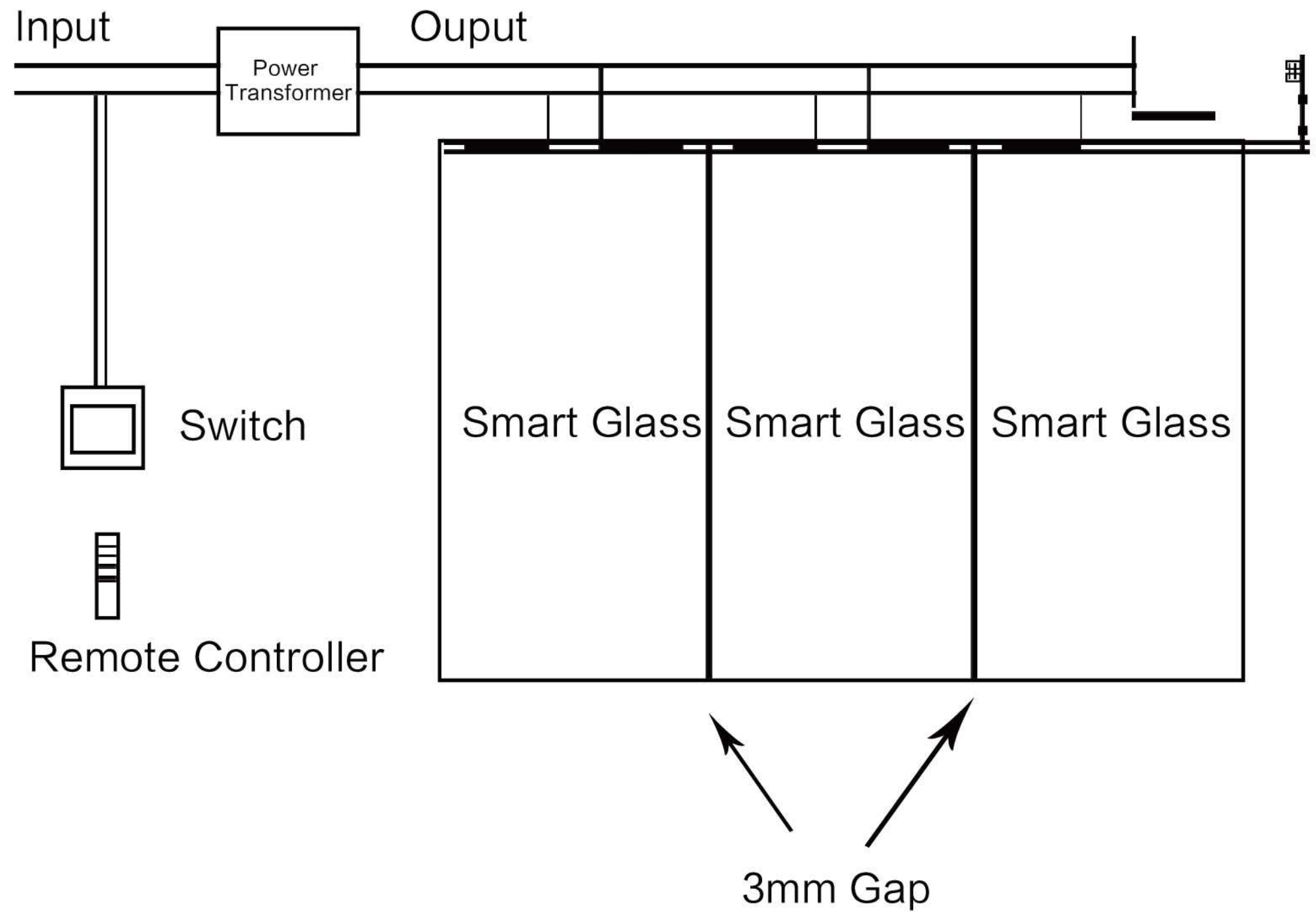
SMART FILM

What is PDLC Smart Glass/Film?

Smart Film/ Glass is based on PDLC liquid crystal technology.

Opaque when power OFF, transparent when power ON.

It also can replace traditional projector-screen.





Feature

1. Energy Saving

Low-carbon, power usage 3 watts per meter square.

2. Sun Shading

The light transmittance is above 83%, and the haze is below 3%, can use as curtain.

3. Thermal Insulation

By reducing the transmittance, it prevents heat exchange, a reduction of 8-12 °C.

4. Decorative

The smart film can make into different colors by adding dye.

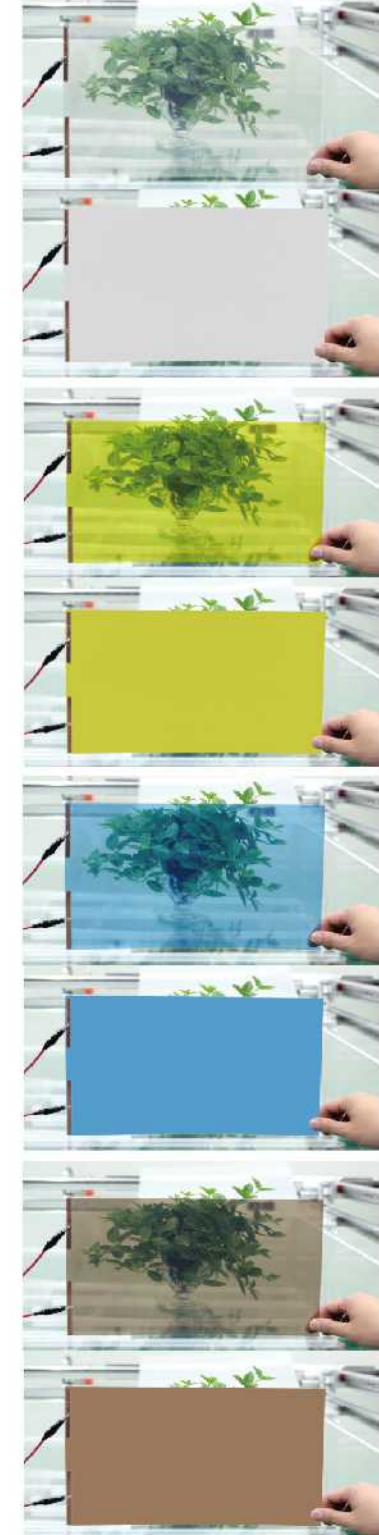
The glass can customized with patterns.

5. Privacy

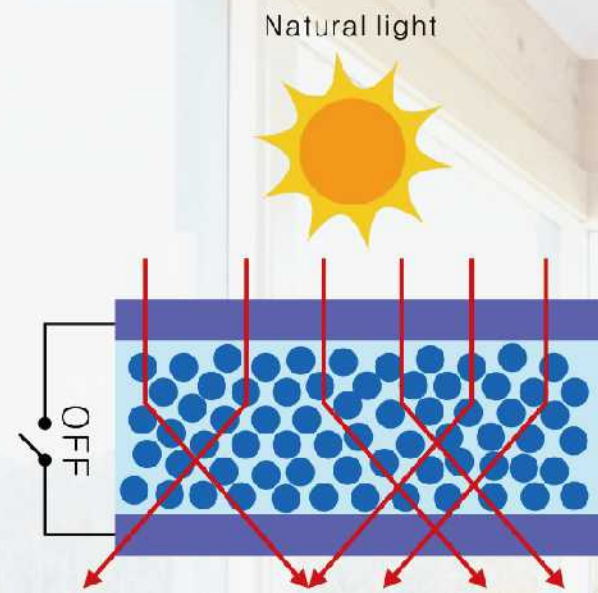
Transparent when power on, opaque when power off perfect for privacy purpose.

6. Glass Shattered Prevention

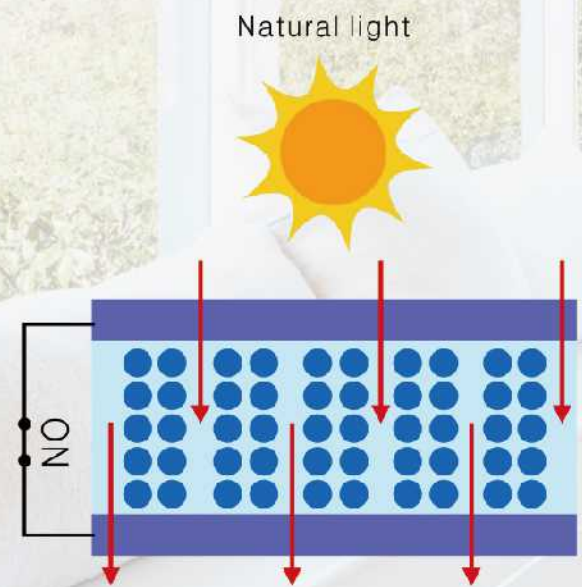
With the smart film embedded will prevents the glass from shattered.



Structural schematic



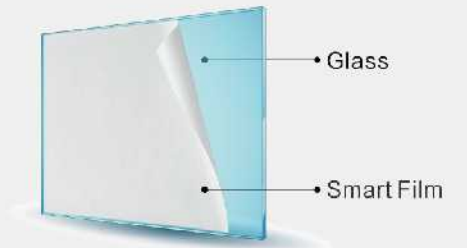
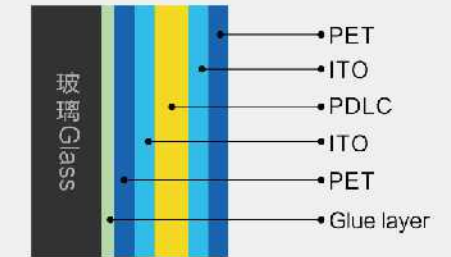
☒ Opaque when power OFF



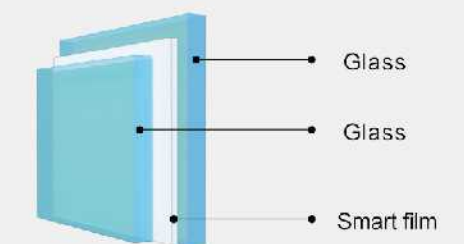
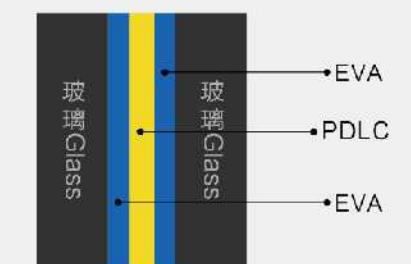
☒ Transparent when power ON

- Particle
- Polymer
- Transparent flexible material

SELF-ADHESIVE SMART FILM



LAMINATED SMART GLASS



*ISO 9001/ISO14001/OHSAS 18001/Rohs/CE

Smart Film Specifications

Optical Properties			Electrical Properties		
Parallellight transmission	ON	≥85%	Operating Voltage	ON	35V-60V
	OFF	<1.5%	- Min voltage	ON	<25V
Visible light transmission	ON	≥83%	Frequency	ON	50/60 Hz
	OFF	≤70%	Switching time	ON-OFF	<45ms
Visual angle	ON	160°		OFF-ON	<45ms
UV blocking	ON /OFF	>99%	Rated power	ON	3w/m ²
Faze	ON	≤3%	Performance		
	OFF	≥ 92.5%	Insulation temperature	8-12°C	
Physical Parameter			Shanding factor	0.2-0.8	
Thickness	0.4mm		Other parameters		
Max width-Self-adhesive	1.8m		Working Temperature	-30°C-90°C	
-Non-adhesive	2.0m		Preserve Temperature	-30°C-90°C	
Viscosity	100gf		Life time	ON≥ 80000h	

Glass Specifications

Thickness

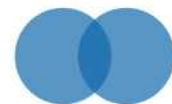
- 5mm+5mm
- 6mm+6mm
- 8mm+8mm
- 10mm+10mm

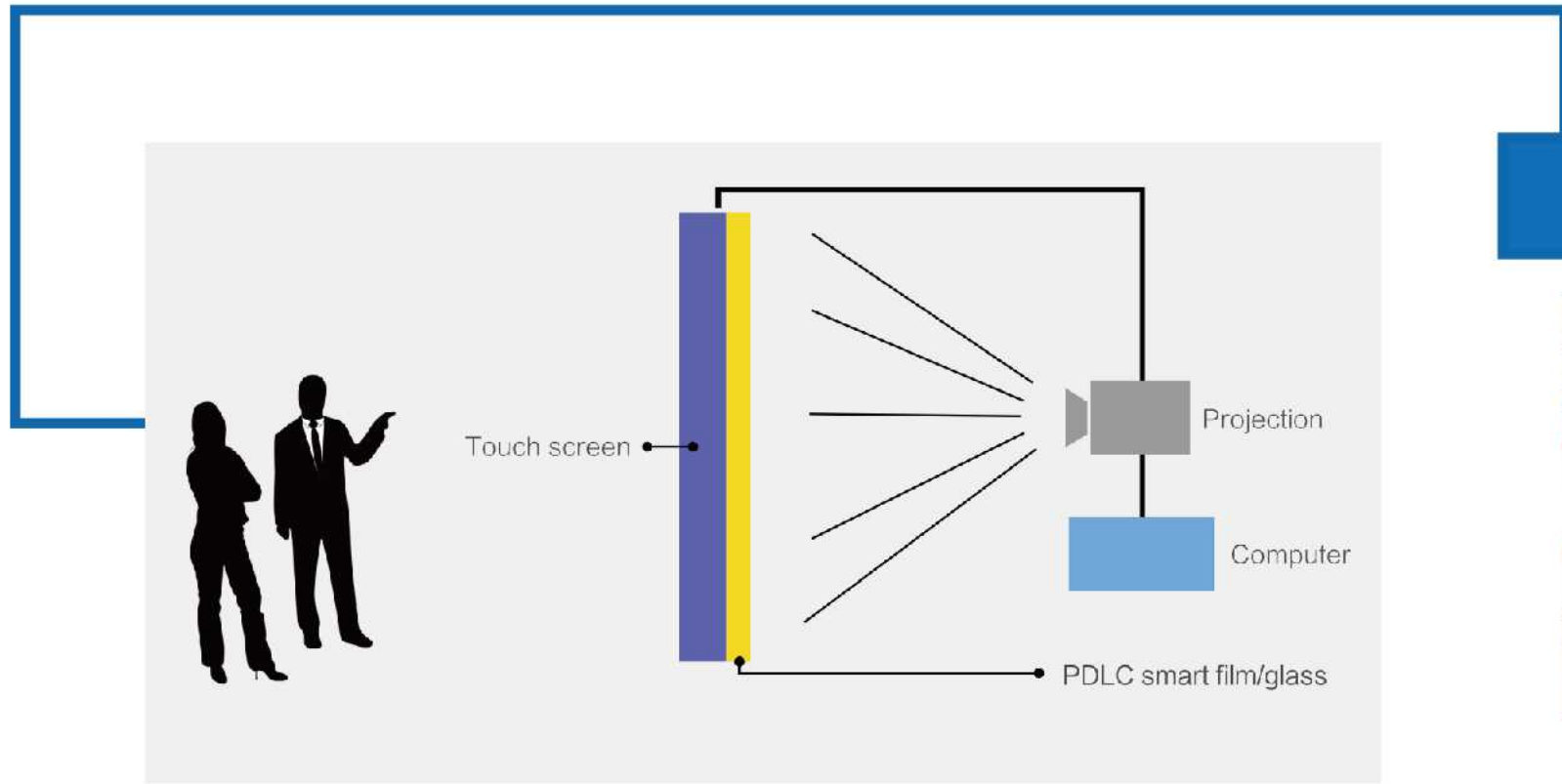
Color

- Transparent
- Yellow
- Green
- Customized

Pattern

- Landscape
- Customiz





Smart Projection System

ZOHE Smart projection system is composed of PDLC smart film/glass, super near focus projector and touch screen.





OFFICE

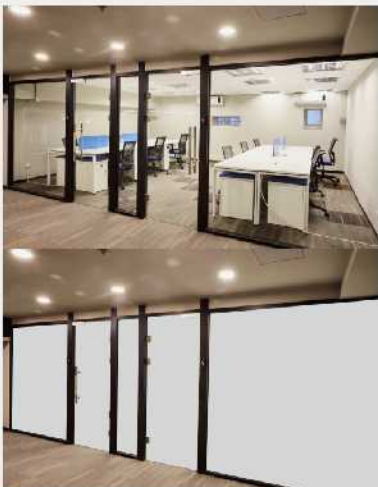
BANK

TRAIN

HOME

HOTEL

MARKET





Natural Stone Coating

Natural Stone Coating is a spray-on application, achieved the effect like stone, granite, brick and other common wall surface materials. It is a water-soluble decorative paint. It made of natural granite and special salt binder, suitable to apply on cement wall, board, glass, plywood and other materials, last for 20-30 years.



Feature

1. Varieties of style and pattern to select.
2. Fire resistant, heat resistant, UV resistant, mildew resistant, prevent bacteria breeding, aging & color fading, and extend the life of the building.
3. Better surface finish with spray-on application (no joint lines), waterproof, acid-proof and antifouling.
4. Made construction simple, fast, and cost saving.
5. Can be sprayed directly on the new surface or resurface with other stone pattern purpose.



CPX Ultra-thin Waterproof Coating

CPX Ultra-thin Waterproof coating is an environmental friendly material composed of dilute acid methyl ester, butyl fat, ethyl ester, auxiliary agent and fluoro-silicon material. It can effectively solve the leakage problem of bathroom, kitchen, sewer etc.



Water-proof Test



The walls of the brick cistern were painted with CPX Ultra-thin Waterproof Coating directly and there was no leakage in the past three years.