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About Uniteglass

UniteGlass(the sub branch of Anhui Fangxing Optoelectronic New Material Technology Co., Ltd) was founded in 2014, a listed company of China National Building Materials Group, a Fortune 500 company with an area of 168 acres.



With the world's Hi-tech production facility of APPLIED SMARTWEB from Germany, Taiwan Lamination Machine and Slitting machine, specializing in the **manufacturer** of capacitive touch screen flexible film with patents. The total investment of the project is 1 billion RMB, and the total production capacity can reach 9.8 million m².

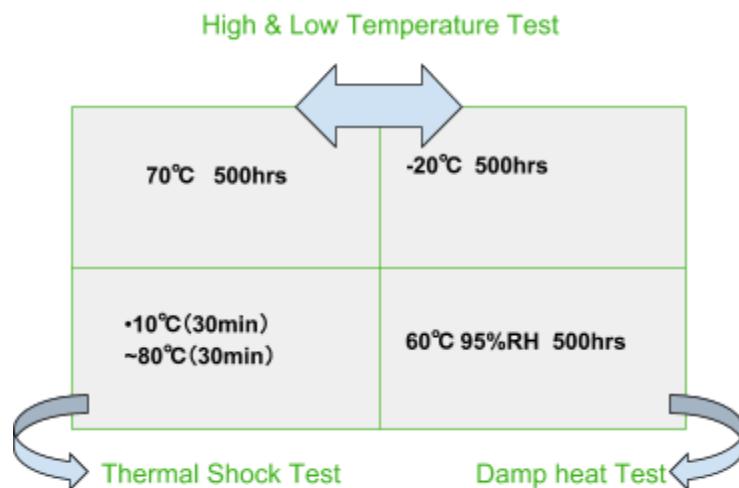
In-House Manufacturing: We have our own Smart PDLC film factory of 168 acres with a registered capital of 50 million RMB.

Strong R&D Team: Supported by China Glass Industry Design & Research Institute.

Hi-Tech Facilities: Dust-free Workshop, German Applied Materials and Automatic 50 Meters aging test production lines,Lamination Machine and Slitting machine.

Resource integration: Brother factories of Smart glass and Photovoltaic products,one stop solution.

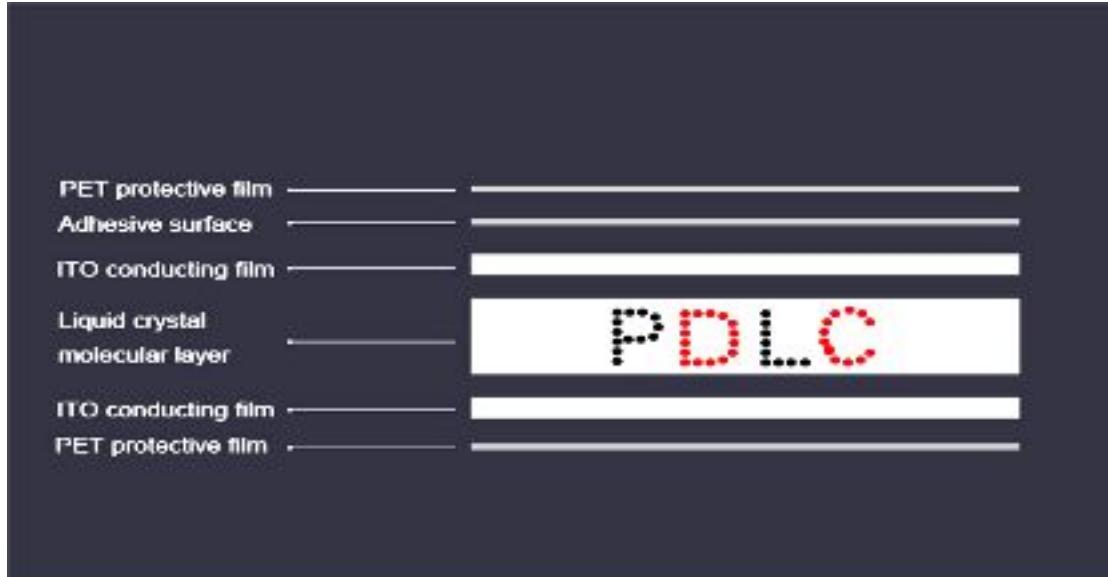
Quality Control: smart PDLC film with high & low temperature test at 70°C and -20°C for 500 hours; Thermal Shock Test 10°C-80°C for 30 minutes; Damp Heat Test for 500 hours.



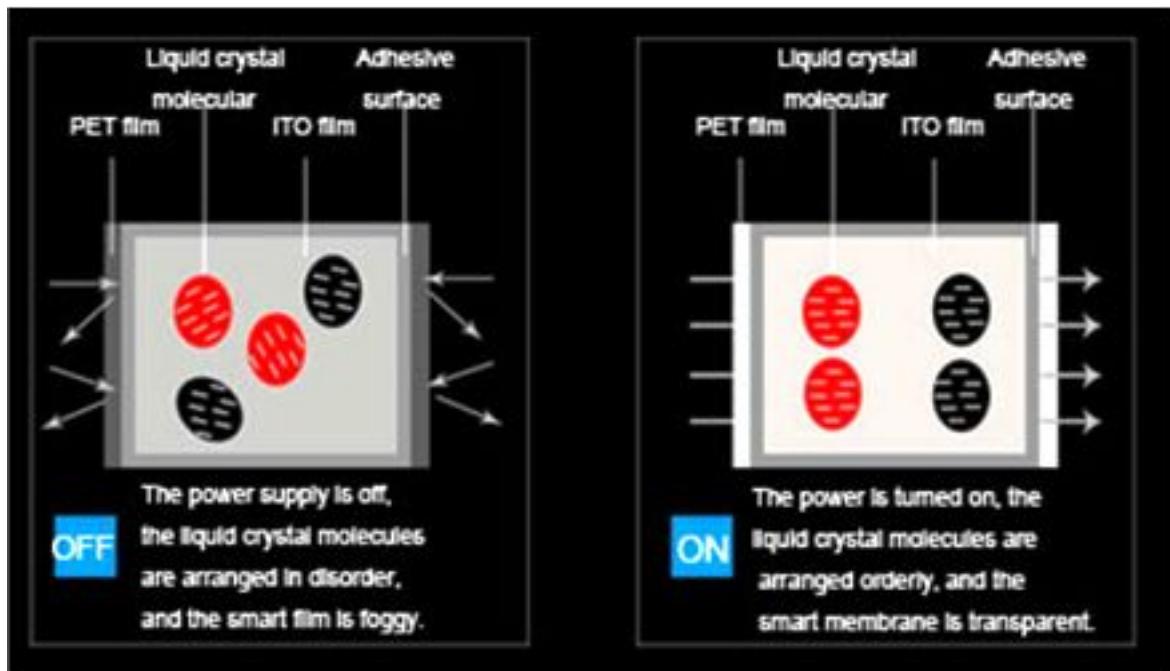
Patent: We've owned the ITO film,PDLC film Patent. Our factory is the supplier of Huawei of Mobile phone Screen in the past 3 years.

About Smart PDLC film

1,Smart PDLC film is a high-tech product which is based on PDLC liquid crystal technology.



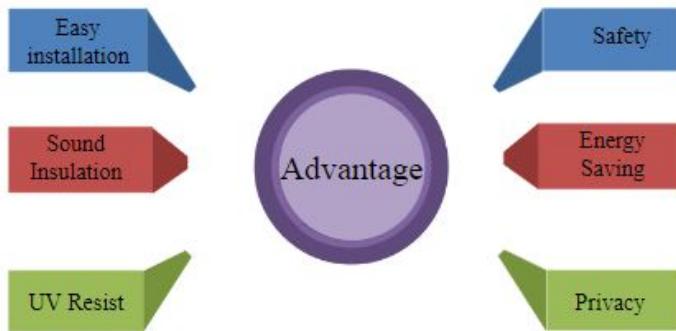
2,Smart PDLC film will become vaporous due to the disordered arrangement of liquid crystal molecules after turning off the power. On the contrary, when the power has opened, neatly organized molecules will make smart film present transparency.



The Specifications of Smart Film:

Item		Mode	Specification
Optical Parameter	Visible Light Transmittance	ON	>85%
		OFF	>55%
	Parallel Light Transmittance	ON	>66%
		OFF	<1.5%
	Haze	ON	<4%
		OFF	>90%
	Visual Angle	ON	>140°
Electrical Parameter	Working Voltage	ON	60V AC
	Saturation Voltage	ON	<36V
	Response Time	OFF-ON	<200ms
		ON-OFF	<10ms
	Power Consumption	ON	<5W/M²
Mechanical Parameter	Thickness	0.4mm-0.5mm	
	Max Width	≤1.6M	
	Coiled Material Size	0.8/1.0/1.2/1.6M(W) x 50/100/200M(L)	
	Adhesiveness	50g/mm	
Environmental Parameter	Working Temperature	—20°C — 70°C	
	Storage Temperature	—20°C — 80°C	
	Service Life	(ON) >10 years	
	Switch Frequency	>80 million times	

The Advantage of Smart Film



Easy installation: just pick and stick for self-adhesive smart film

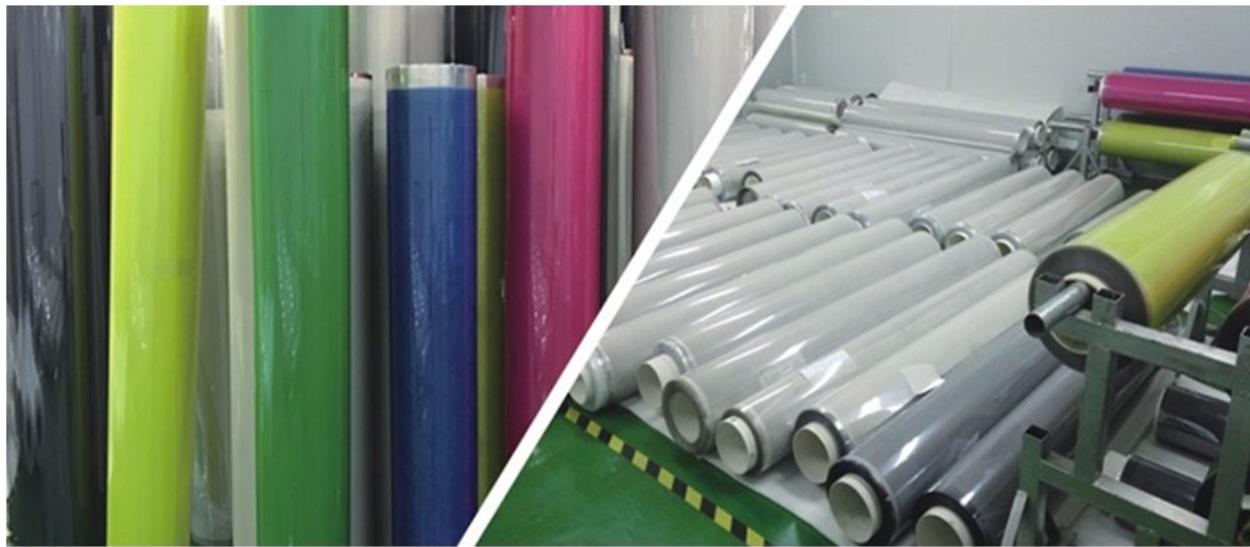
Energy saving: Saves light

Privacy: powered off, it's opaque

UV resistant: it can resist 98% UV light

Sound insulation: when laminated with toughened glass, it blocks 38db

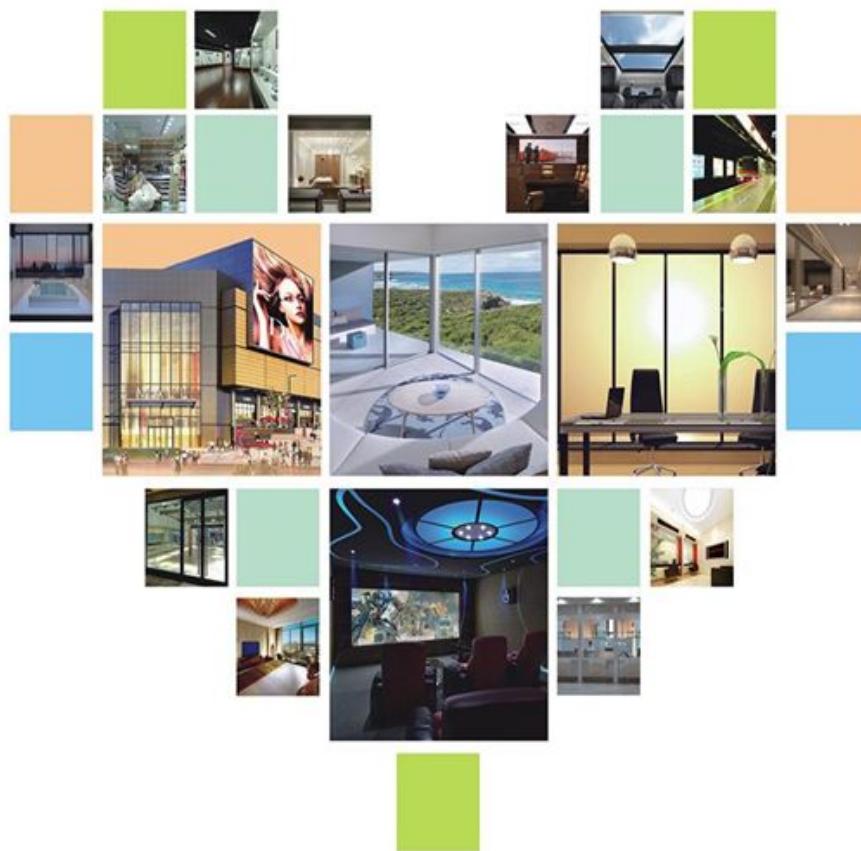
Safety: PDLC film life time above 10 more years



PDLC Film

Markets

- **Architecture:** High-grade hotels, villas, offices, conference rooms, toilet doors and windows, shower rooms, kitchen doors and windows, glass curtain walls, greenhouses, science and technology residential buildings, commercial buildings, factories, laboratories, doors and windows, or partitions of clean rooms.
- **Financial and medical treatment:** Bank counter window, automatic teller machine security window; Hospital baby room, or visiting window of intensive care unit.
- **Car windows:** Car skylights, subway, high-speed rail.
- **Various industries:** Interior design application, exhibition hall, command center, prison isolation room, home theaters, ticket window, shop window, commercial advertisement, etc.



In the following, well show you different applications projects for reference.

Applications

Banking System

Smart PDLC film opens up a new field of modern bank that has high-performance covert function, so that the working environment is more secure. Because of the bullet-proof PDLC film counter used for bank isolation, during business hours the glass window remains transparent, once an emergency occurs, in a few seconds the window can be immediately darkened so that the terrorists lose the looting targets, which leave enough time for police officers to subdue the robbers, and to maximize the safety of personnel life and property.

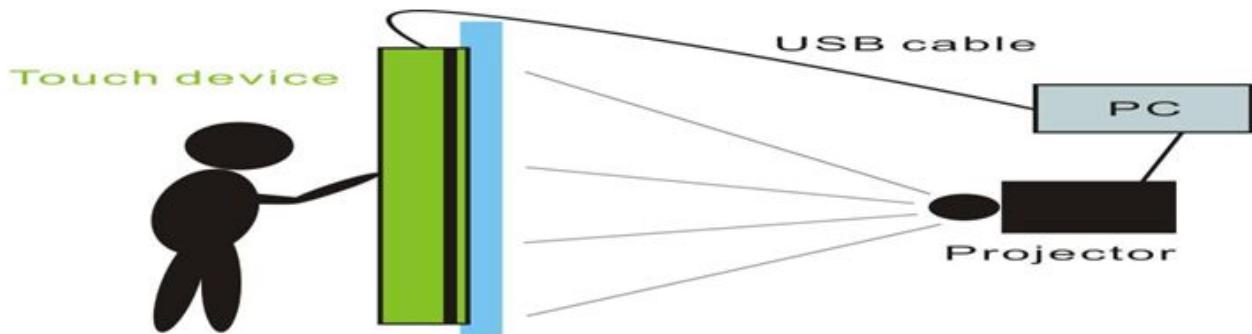


Practical industrial system

The feature of transparent and opaque of smart PDLC film brings a new working environment to the factory workshop. At the same time, it is convenient to monitor the working condition and customers' visit, and to prevent be disturbed by unrelated personnel.



Multimedia Projection



1, Multimedia intelligent system integrates intelligent visual film, ultra-short focus touch screen, infrared touch screen and computer diversification technology.

It can be projected, touched and realizes the interaction of super body feeling game without power.

The glass becomes transparent when the power is on, which realize 3D stereoscopic image without affecting the display of exhibits.

It can be applied in shopping malls, outdoor advertisements, bank exhibitors and other equipment or public places.



shopping windows projection



museums projection

2,Intelligent viewing film opens up a new field of projection, is the first choice for projection wall because it can zoom in and out of the picture with projector.

Hollywood movie stars, directors, business giants, multinational companies adorn noble buildings with smart screens. Amusement parks use smart screens to achieve magic sound and light effects.

It can be used in villas, banks, insurance companies, hospitals, hotels, cultural relics showrooms, museums, churches, command centers, restaurants, car skylights, etc..

It can be pasted on doors window, ceiling, fog-like insulation, while transparency does not be affected, and shopping malls can use back projection screen as advertising wall to attract customers.



Monitoring center

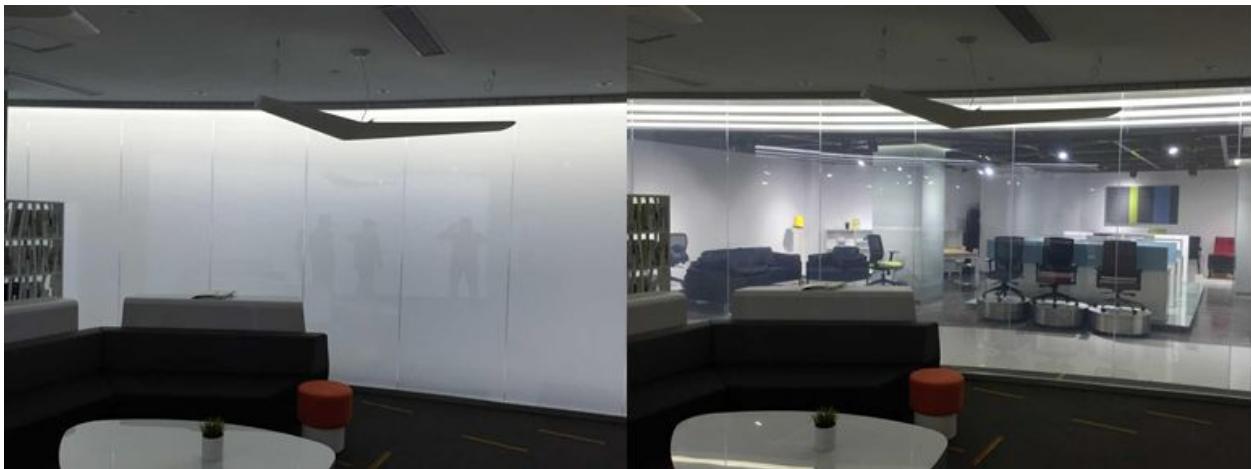
Hotel System

Smart 'Privacy Rooms' are becoming increasingly popular within hotels, offering users the chance to study, work and sleep in the height of privacy.



Commercial:office

Smart PDLC film brings the modern office environment a new field of invisibility, showing a completely different hidden space. Both design and visual will give you an extraordinary new experience. Being seen or not, depending on your own control.



Residential

At home we can have the smart PDLC film or smart laminated glass in restroom,living room doors and windows, offer us a privacy space to enjoy time.



For more information,pls contact us freely. You're warmly welcomed to visit our facotry!

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