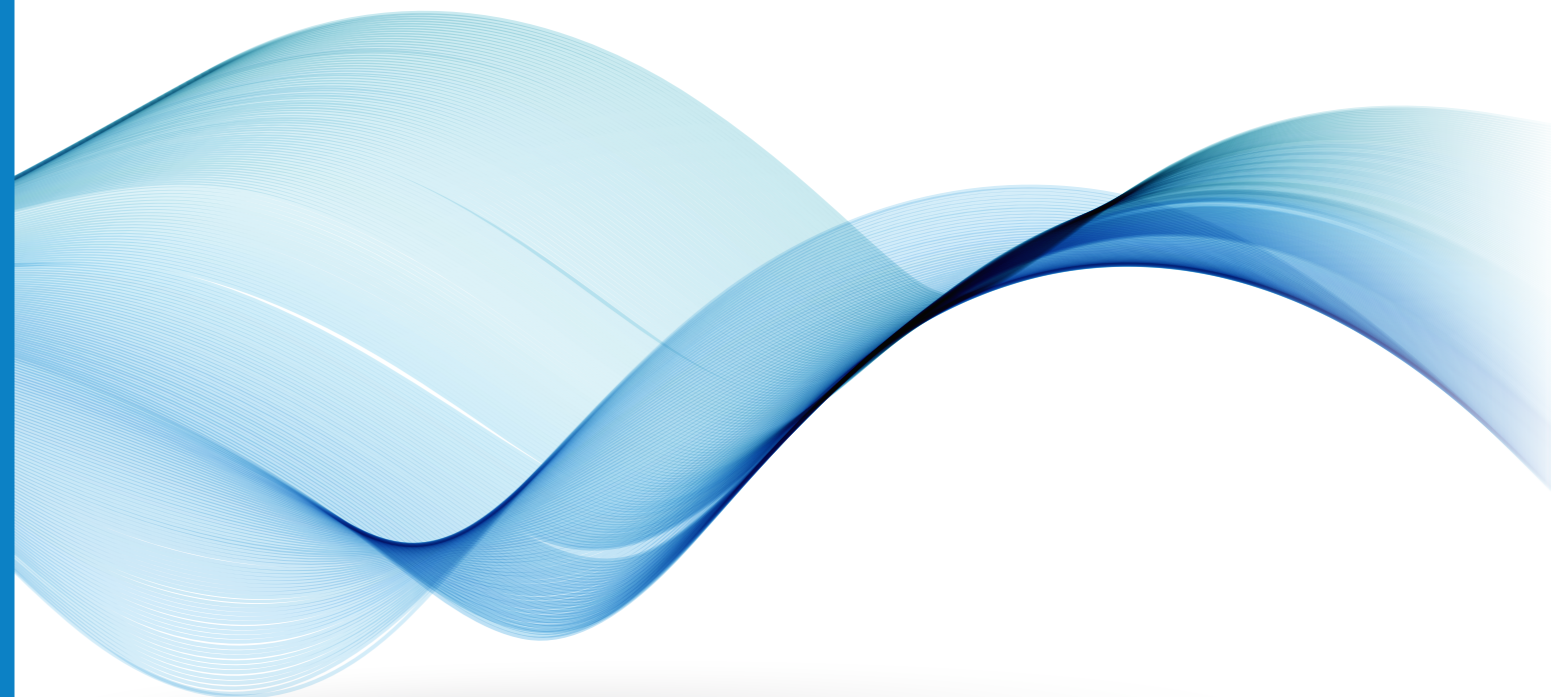


SMART LIFE / SELF-CONTROL



Smart Glass / Smart Film

BASED ON PDLC TECHNOLOGY · CHANGE YOUR VISION



WHAT’S THE SMART FILM /SMART GLASS?

Smart film/smart glass is a kind of intelligent window film/glass can transform the transparency, There are two modes: opaque when power off, and transparent when power on. It is widely used in Office, House, Medical Institutions, Showcase Mall, Auto, etc. We can make them as Curtain, Partition Glass Wall, Projection Screen and so on.



SPACE PARTITION

Break the Fixed space, strong effect of extended space, privacy, open, do what ever you want.



PRIVACY PROTECTION

A key against peeping, intelligent control, more onvenient privacy protection.



TOUCH SCREEN & PROJECTION

Family cinema, office projection, one glass gets done!



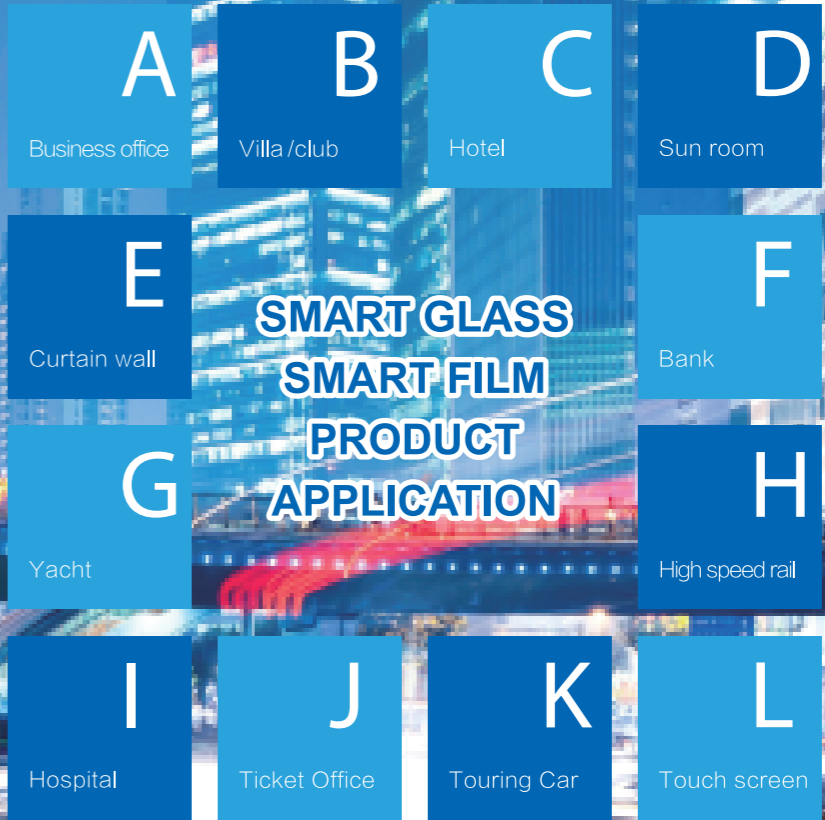
SAFE PROTECTION

Against impact, it can effectively prevent glass fragments to splash even if fragmentation.



ENVIRONMENTAL PROTECTION & SOUND INSULATION

Not only effectively block 99% UV, But also can stop the noise pollution to create a quiet world.





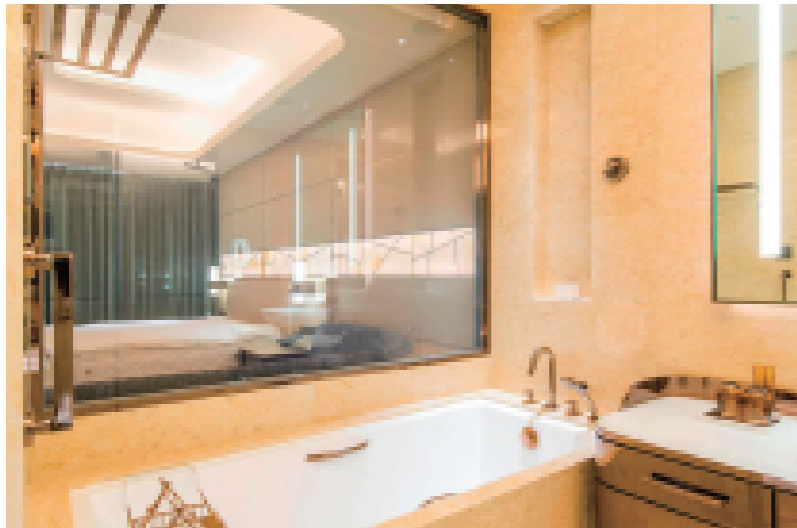
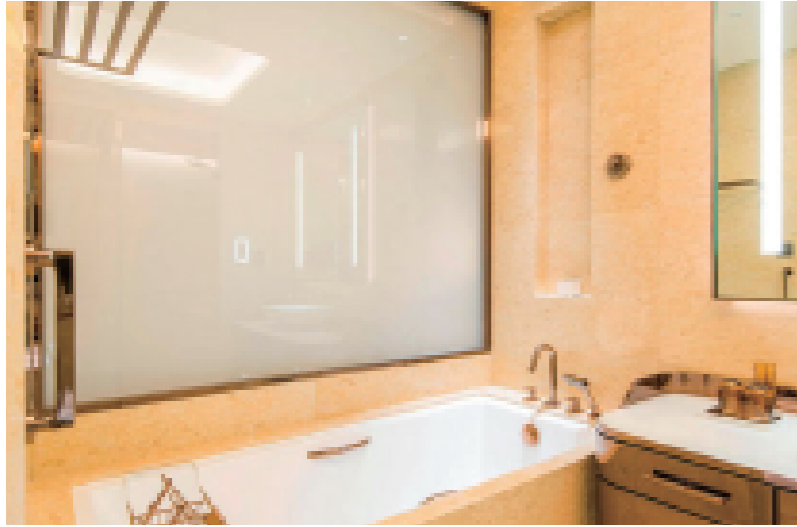
VILLA/CLUB

Random Switch when power on and off, it creates a different atmosphere for the space. It bring colorful life when installed for villa homes. It adds plenty of mystery if for reception and leisure while installed for Clubs, which is more generous and fashionable.

OFFICE/ CONFERENCE PARTITION

Privacy, vision expansion, and smart control endows intelligent and modern office a brand new experience. Not only in functionality, but also in style and Vision, smart film shows the extraordinary charming.





HOME/HOTEL/ BATHROOM

Random switch in two modes, it signifies mutual exchange transformer between space and space, eventually creating a mysterious elegant and romantic atmosphere, which matches the romantic and infinite imagination of the hotel bathroom itself, and sentiment and fun.



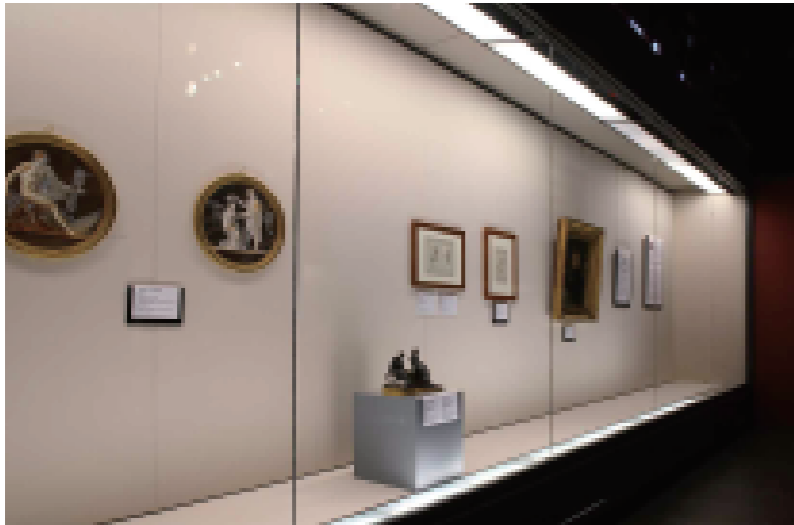
MEDICAL INSTITUTIONS

Application of smart film glass in Special requirement as aseptic intensive care unit and operating room examination window, It both has as open and Privacy function. It not only avoid bacterial contamination by the curtains, but also eliminates the inconvenience of wash and change.



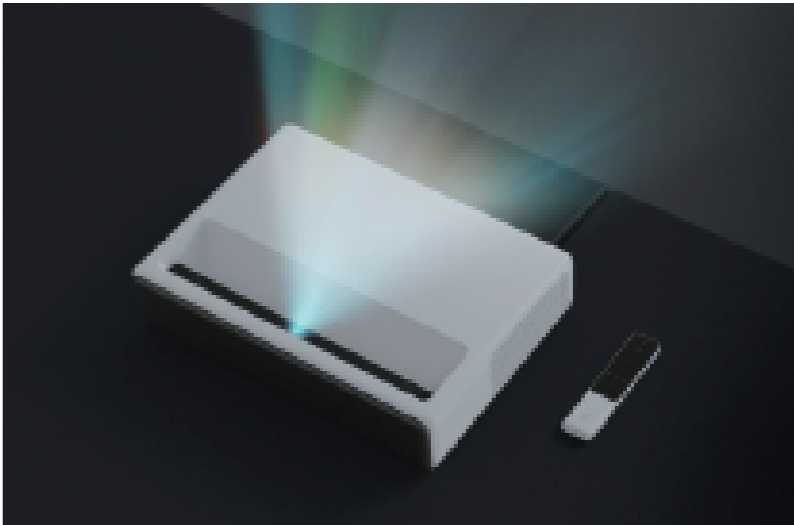
MUSEUM

Application of smart film/glass in museum show window, it reduces the heat radiation transmission and in return it protects the cultural relics of the pavilion against the fade and damage due to Ultraviolet radiation.



PROJECTION TOUCH SCREEN

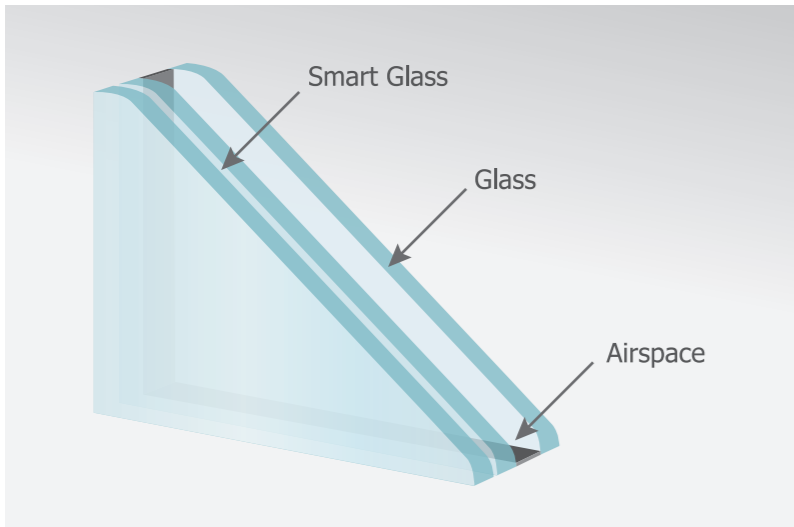
Smart film/glass posses rear projection function in coordinate with use of HD projector, It can present vivid color of the high-definition screen effect, meanwhile it will achieve touch screen control if combined with infrared touch technology.





CURTAIN WALL

Good daylighting function and 70% infrared and 98% UV can be shielded. and can adjust the transparency of the window film by gradient control, make indoor light soft, comfortable and pleasant.



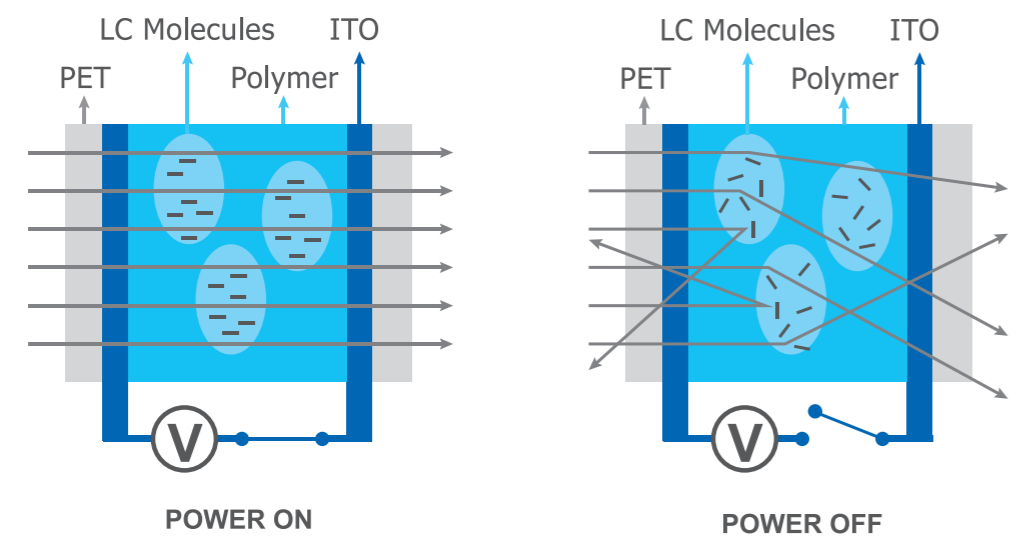
AUTO/YACHT

Auto smart film is the most innovative application for auto vehicles which uses exclusive switchable tint technology. The ability to effectively control the light transmission allowing electric auto tint to significantly reduce the amount of infrared (IR) and filter the ultraviolet (UV) rays getting into the vehicle.



PRODUCT DIAGRAM

Smart film also named PDLC (Polymer Dispersed Liquid Crystal) Consists of Liquid crystal molecules and polymers.consists of ITO film and LC+Polymer.In the absence of an electric field,Its molecules are in opaque state.Under the action of an electric field,the molecules are arranged in an orderly manner along the electric field direction,Make it transparent.By controlling the electric field,the electric field can be controlled to convert between the transparent and opaque state.

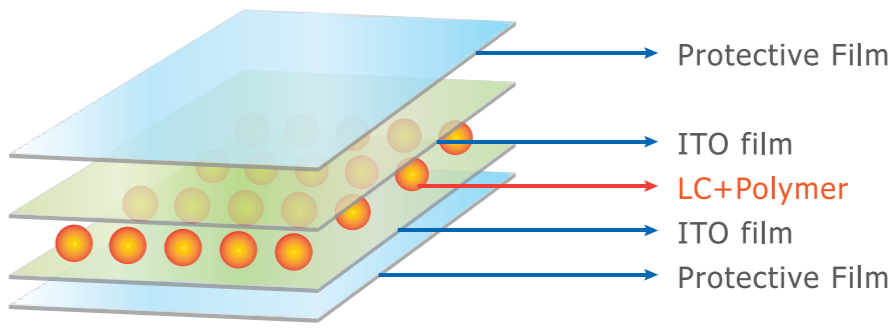


POWER ON : LC Molecules are arranged in a regular manner, allowing Light to pass uninterrupted.
POWER OFF : LC Molecules are arranged in an irregular manner, dispersing light.

PRODUCTS SERIES

FANTASY GLASS NON SELF-ADHESIVE SMART FILM

Non self-adhesive smart film (laminated smart film) consists of protection film and PDLC .The key material of smart glass.

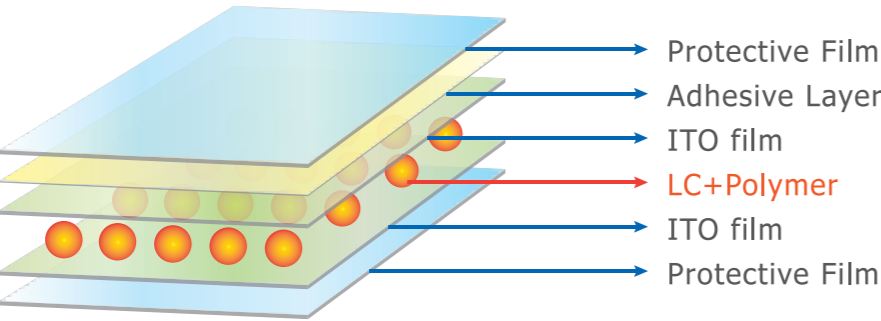


NON-SELF ADHESIVE SMART FILM

PRODUCTS SERIES

SELF-ADHESIVE SMART FILM

Self-adhesive smart film consists of protection film ,adhesive layer and PDLC .Stick the film on glass directly and connect the power supply.Free to switch transparent and opaque.

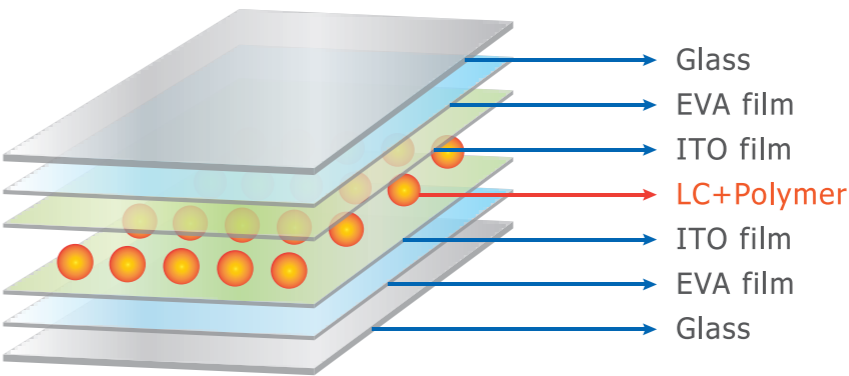


SELF ADHESIVE SMART FILM

PRODUCTS SERIES

SMART GLASS

PDLC + 2 EVA film in the middle of two layers of glass ,after high temperature and high pressure agglutination formation of the new special photoelectric glass product .With the characteristics of laminated glass and electronic control curtains.



SMART GLASS

SMART FILM

TECHNICALSPECIFICATIONS AND PARAMETERS

OPTICAL PERFORMANCE		PHYSICAL PROPERTIES	
Visible light transmission	ON >82% OFF >65%	Working environment temperature	-10 °C~ +60 °C
Viewing angle	ON >140°	Storage ambient temperature	-30 °C~ +60 °C
Haze	ON <6% OFF >96%	Size spectification (non self-adhesive)	Max width 1800mm
Switching speed	<10ms	Thickness (non self-adhesive)	0.4mm
UV block	ON <23% OFF >99%	Size spectification (self-adhesive)	Max width 1500mm
IR block	ON <14% OFF >65%	Thickness (self-adhesive)	0.6mm
		Scratches	<3mm/m²
		Bubble	<1.5mm/m²
		Inclusions	None
		Glue failure, degumming, burst	None

SMART GLASS

TECHNICAL SPECIFICATIONS & PARAMETERS

OPTICAL PERFORMANCE		PHYSICAL PROPERTIES	
Visible light transmission	ON >82% OFF >65%	Working environment temperature	-20 °C~ +60 °C
Viewing angle	ON >140°	Storage ambient temperature	-30 °C~ +60 °C
Haze	ON <5% OFF >96%	Impact strength	Conform to GB9656-2003 laminated glass national standards
Switching speed	<10ms	Anti-radiation	
UV block	ON <36% OFF >99%	Moisture resistance	
IR block	ON <14% OFF >74%	Humidity resistance	
		Anti-vibration	
		Sound insulation	
		Size specification	Max width 1850mm*4000mm
		Thickness	Glass thickness *2 +2mm
		Scratches	<3mm/m²
		Bubble	<1.5mm/m²
		Inclusions	None
		Glue failure, degumming, burst	None