



**LIGHT UP
YOUR
LIFE**

2025
VERSION 2

**ES
SWITCHABLE
GLASS
CATALOGUE**

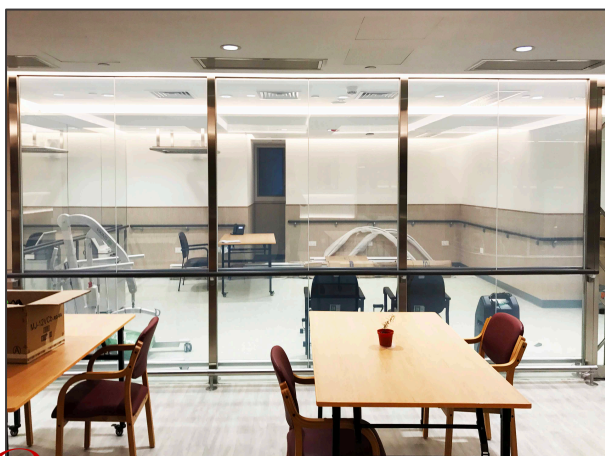


Reason of Choosing Smart Glass
via Easy Glass

Japan made LCD materials
Japan made PET adhesive Film
Ultra High Definition Smart Glass
Terrific Cost Performance Value
15 years Smart Glass Experience
Established Technique
Reliable After Sales Service



off



Location : Hong Kong - Shui Chuen O Sanatorium

智能調光玻璃

智能調光玻璃是一款將智能調光膜復合進兩層玻璃中間,經高溫高壓膠合後一體成型的夾層結構的新型特種光電玻璃產品。

使用者通過控制電流的通斷與否控制玻璃的透明與不透明狀態。玻璃本身不僅具有一切安全玻璃的特性,同時又具備控制玻璃透明與否的隱私保護功能,由於液晶調光膜夾層的特性,調光玻璃還可以作為投影螢幕使用,替代普通幕布,在玻璃上呈現高清畫面圖像。

產品效能

1. 私隱保護功能
2. 投影功能
3. 具備安全防爆玻璃功能
4. 阻隔99%以上的紫外線及90%以上的紅外線
5. 隔音功能



Smart Glass

The smart glass is a new type of special photovoltaic glass. The poly-vision switchable privacy film was glued into two slabs of glass at high temperature and pressure to form sandwich structure.

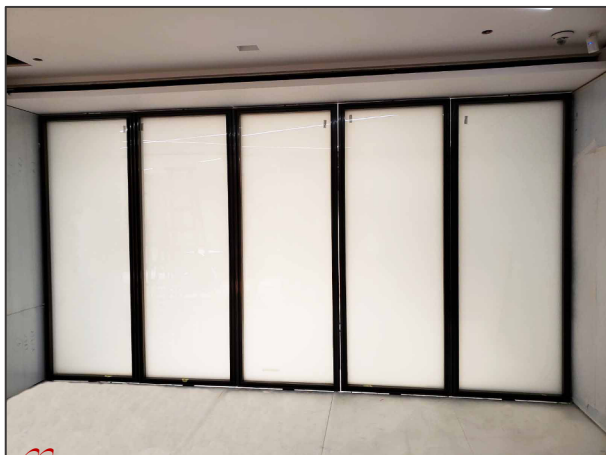
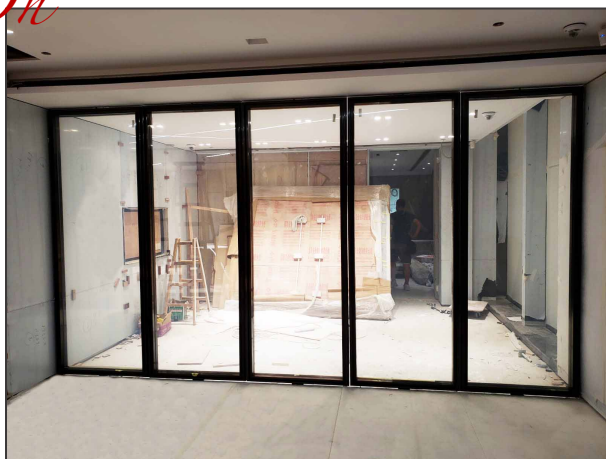
The user can control the glass to be transparent or opaque through power on or power off. The glass not only has all the characteristics of safety glass, but also has the feature of protecting the privacy through the controlling of the transmittance. Due to the existence of liquid glass interlayer, the poly-vision switchable privacy glass can also be applied as a projection screen, instead of the ordinary screen. High resolution image can be presented on this glass.

Features

1. Privacy protection
2. Projection function
3. Safety: poly-vision switchable privacy glass has all the characteristic of safety glass, which can prevent the flying of debris after rupture of glass. On the other hand, the strength of this glass is also excellent.
4. Poly-vision switchable privacy glass can block the heat, more than 99 % of UV light and more than 90 % of IR light.
5. Soundproofing features



On



Location : Hong Kong - Chow Tai Fook, K11, IST

Off

Guard against Theft

1. The poly-vision switchable privacy glass is recommended to be applied in the showcases in the shopping malls, banks, jewelry stores and museums.

智能調光玻璃結構圖 Smart Glass Structure



套用範圍

商務應用

1. 投影幕布作用
2. 辦公區域、會議室、監控室隔斷

住宅應用

1. 室內空間隔斷
2. 小型家庭影院幕布使用

醫療機構應用

1. 可取代窗簾,起到隔斷與隱私保護的功能

博物館、展館、商場、銀行防盜應用

1. 推薦應用於商場、銀行、珠寶店及博物館、展覽館的櫥窗

Application

Business Region

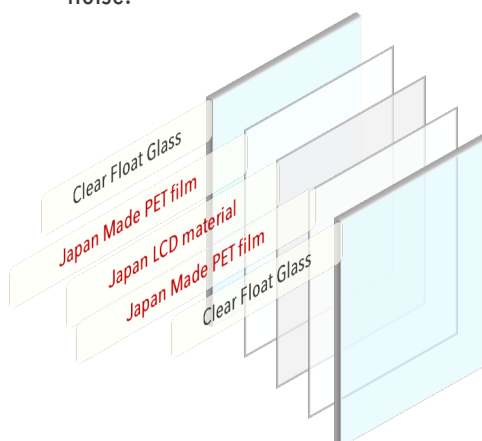
1. Projection screen
2. Partition wall in the office space, conference rooms and control rooms

Residential Region

1. Partition wall of inner rooms
2. Small home theater curtain

Medical Institutions

1. The replacement of curtain by poly-vision switchable privacy glass can help to blocking regions , protect privacy and reduce the noise.



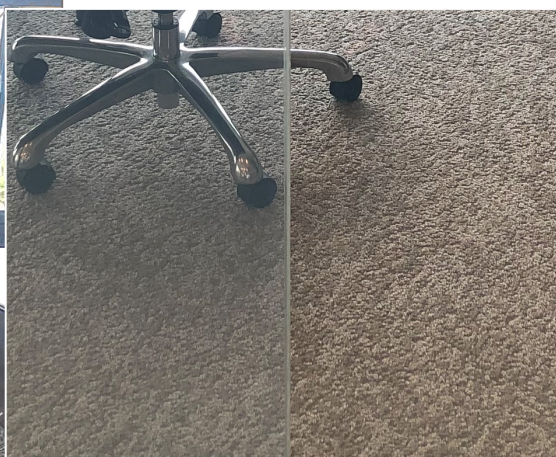
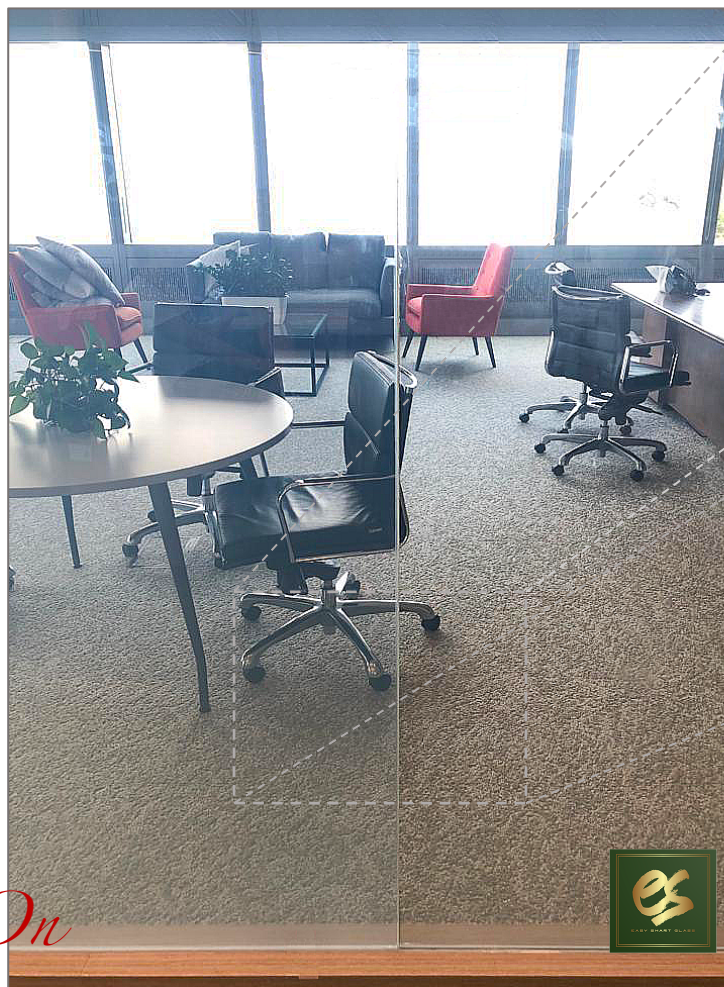


高清 / 超高清智能調光玻璃

High Definition (HD) / Ultra High Definition (UHD) Smart Glass

高清
HD Smart Glass

超高清
UHD Smart Glass



Prüfbericht - Produkte
Test Report - Products

Prüfbericht-Nr.: CN22EL02 001E

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Test report no.:

Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse - Bemerkungen/ Measuring results - Remarks	Ergebnis Result
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Test Results

1. Luminous transmittance

Sample No.	Test result		Evaluation
A003264758-001-01	Power off state	5.34%	Data Only
A003264758-001-01	Power on state	89.08%	Data Only

2. Haze

Sample No.	Test result		Evaluation
A003264758-001-02	Power off state	92.03%	Data Only
A003264758-001-02	Power on state	0.90%	Data Only

UHD Luminous Transmittance Test Result by TÜV Rheinland

ES智能調光玻璃分為高清和超高清兩種

- ES 高清智能調光玻璃的透光率可以達到 **80% (+/-3%)**，是市場上高等級的一種調光玻璃，在霧化度，可視角度，耐熱度跟壽命更是市場上一等一的選擇
- ES 超高清智能調光玻璃的透光率可以達到 **89% (+/-3%)**，可算是現今市場上PDLC技術的中透光率和清晰度最頂級的智能調光玻璃，加上各種高配置的參數值，絕對是調光玻璃中的不二之選

ES Smart Glass in High Definition / Ultra High Definition

- ES High Definition (HD) Smart Glass has **80% (+/-3%)** Luminous Transmittance, is a high standard smart glass in the market. With the parameters of Wide Visual Angel, High Temperature resistance, Long Life Time, if you looking for HD smart glass, ES is definitely the one you should be looking at
- ES Ultra High Definition (UHD) Smart Glass has **89% (+/-3%)** Luminous Transmittance, is the highest transmittance and the most clear you can get in the market under PDLC technic. With all the high standard of parameters, if you are looking for the top quality of smart glass in the market, ES will be your unique choice.



On



Location : Hong Kong - MTR office in Fo Tan



智能調光玻璃參數 Smart Glass Parameters

測試參數 Test Parameter		狀態 State	結果 Results
光學 Optical	透光率 Transmittance 平行光 Parallel Light	通電 Power On	高清約 HD About: 80% (+/- 3%) 超清約 UHD About: 89% (+/- 3%)
		斷電 Power Off	< 1%
	霧化度 Haze	通電 Power On	< 7%
		斷電 Power Off	> 90 %
	可視角度 Visual Angle	通電 Power On	約 About: 160°
	紫外光阻隔率 UV Light Blocking Rate	通電 Power On	> 99%
		斷電 Power Off	> 99%
	紅外線阻隔率 IR Light Blocking Rate	通電 Power On	> 30%
		斷電 Power Off	> 90%
電學 Electricity	電源適配器 Power Adapter	通電 Power On	45 VAC
	反應時間 Response Time	通電 Power On → 斷電 Power Off	200 毫秒 (ms)
		斷電 Power Off → 通電 Power On	10 毫秒 (ms)
	功耗 Power	通電 Power On	約 About: 5 W/m ²
尺寸 Size	厚度 Thickness	/	0.4 mm
環境 Environment	操作溫度 Operating Temperature	/	-10°C to 60°C
	存儲溫度 Storage Temperature	/	-20°C to 100°C
壽命 Life	使用壽命 Life Time	通電 Power On	超過 More than 100,000 hours



我們的智能調光玻璃優勢

1. 採用全球領先的卷對卷工藝,做到連續生產,比起原有單張生產工藝,生產效率和產品穩定性明顯提升。
2. 能夠生產業界最寬1800mm尺寸的調光膜。
3. 通過對液晶聚合物的深入研究,我司已能生產各種顏色的調光膜。

Advantages

1. Using the leading roll-to-roll process in the world, continuous production was able to get achieved. Compared to the original single production technology, efficiency and stability of the products improved significantly.
2. We are able to produce widest PDLC film in the industry and the size is 1800mm.
3. We are able to produce PDLC film in various colors, based on the research of liquid crystal polymer.

裝置說明圖 Installation Diagram

