

creation



**ZEELANG**

Shenzhen Zeelang Glass Co., Ltd  
Shenzhen Zeelang Digital Technology Co., Ltd

# Switchable Smart Glass



① Products Specification

② Technolgy Data

③ Project Case

④ Install Insturction

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# What is smart glass?

## Definition:

Smart glass, also called Switchable privacy glass, is a product that PDLC film is laminated into two pieces of glass and it is capable of adjusting light transmission between transparency and opaque while using a special transformer.

**Structure:** Glass+PVB+PDLC Smart Film+PVB+Glass

**MAX Size:** 1800\*220MM or size customized

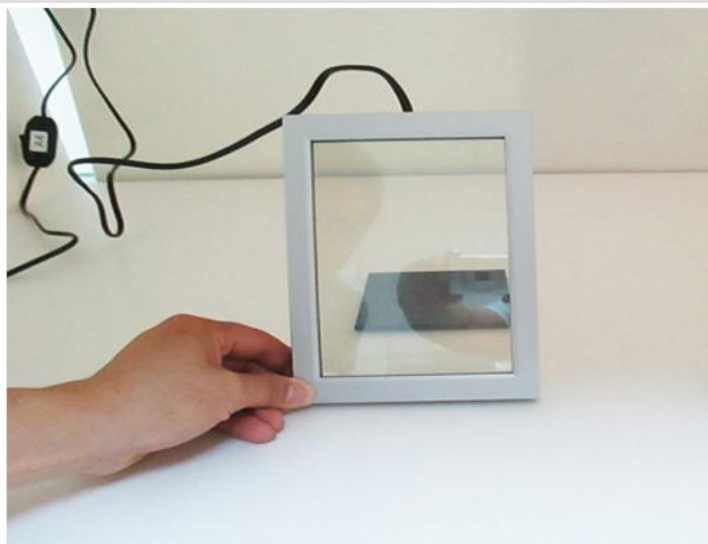
**Thickness:** 4+PDLC+4MM, 5+PDLC+5MM, 6+PDLC+6MM etc.

**Color:** white, light grey, dark grey

**Application:** Project screen, Office privacy partition, shower room, Commercial advertisement, Home privacy window glass etc.

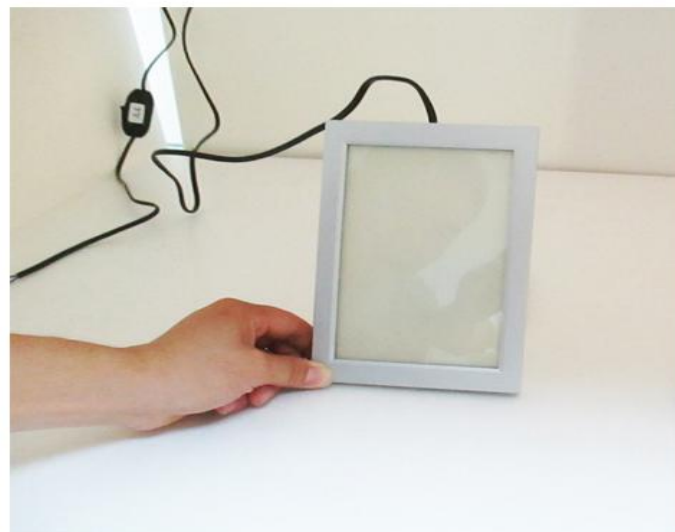
## Switchable Smart Glass characteristics

- 1, Privacy
- 2, energy conservation
- 3, Project curtain wall
- 4, environmental protection



ON

SMART GLASS



OFF



## Privacy

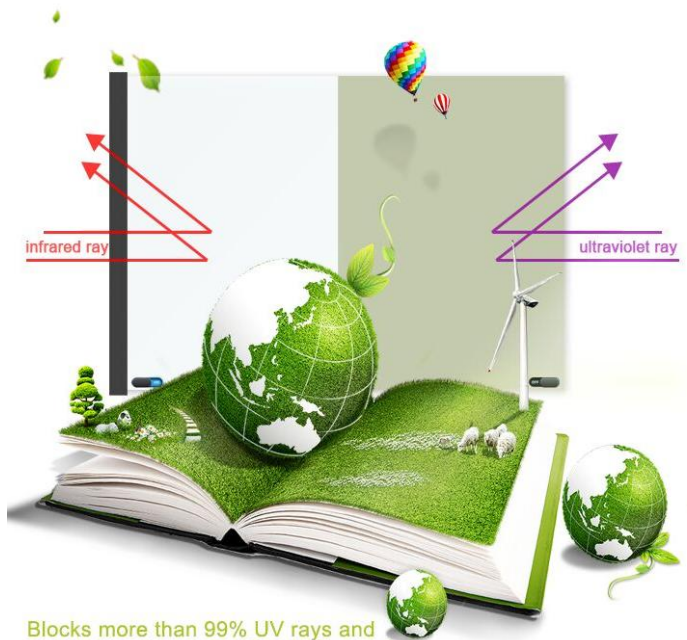
- Electronic curtain --- for privacy.
- Switch-OFF for privacy protection.  
Switch-ON for great vision.

## Save Energy

- To save your resource for glass construction



## ENVIRONMENTAL



Blocks more than 99% UV rays and 98% infrared ray ,avoiding fading in the room.

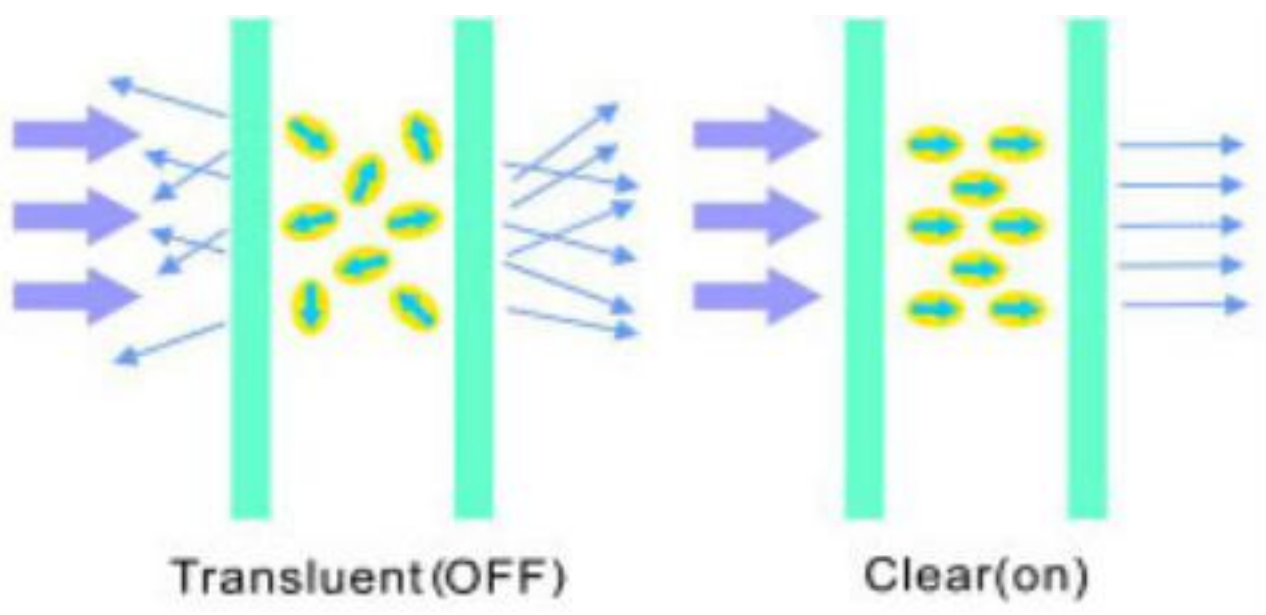
## Projection curtain wall

- Easily conversion it into commercial center or advertising wall.

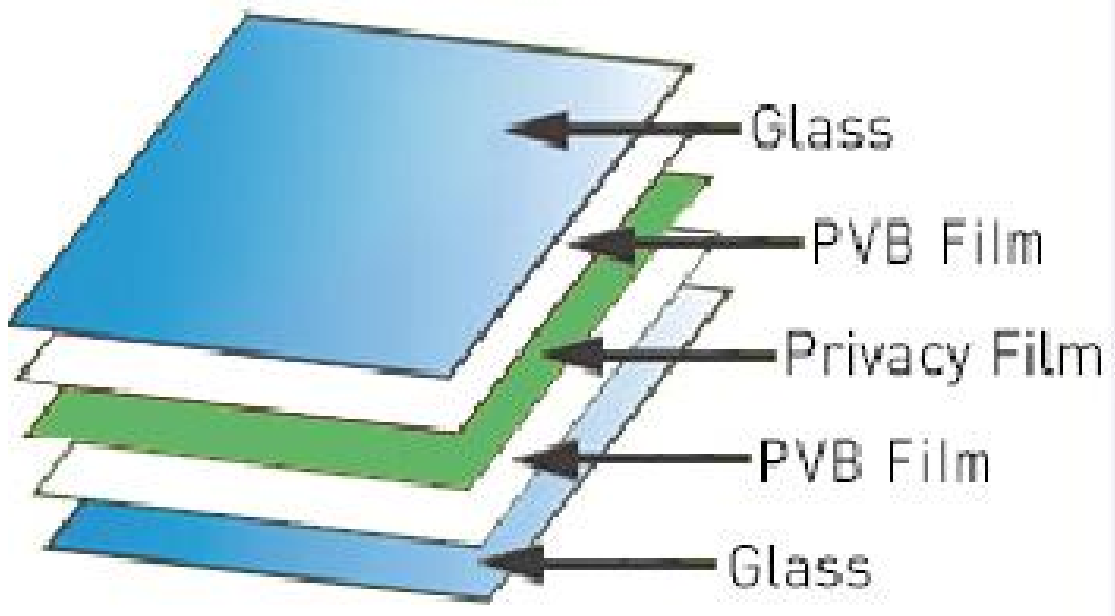
## Environmental

- Unit UV & IR harming. Becoming a comfortable environment

# Hot it works?



## Structure



Technology Data		
Glass Material		Float glass , LOW-E glass etc
Size Spec.	Thickness	2+PDLC+2~15+PDLC+15MM
	Max Glass Size	1800*2200mm
Optical Performance	Parallel Light	Transmittance:≥ 79% (ON)
		Transmittance:≤ 5%(OFF)
	Visible Light	Transmittance:> 83%(ON)
		Transmittance:> 50%(OFF)
	UV Rating Blocking	≥ 100%
	infrared Rating Blocking	≥ 92%
Working Voltage		AC60V
Input Voltage		AC220V or AC110V ,50Hz±5%
Consumption		4W/m <sup>2</sup>
Response Time		Turn On Speed : 15MS
		Turn Off Speed: 18MS
Life Time Span		> 100000h
Current		0.8A
Working environment tem.		-20°C ~ +70°C
Storage temperature		-30°C ~ +60°C
Dielectric Strength		1800V / AC 1M1N

# Our Project Case

## Shower Room ---Shenzhen Hilton Hotel



## Guangzhou Junyue Hotel





# Our Project Case

## Individual Home



## zeelang Glass Show Room



# How can I install?

- 1) Leave enough project space for install smart glass .
- 2) Befor install , please rechecking smart glass can be working in good condition. And size if correct .
- 3) Accordence to supplier's advice , there have gasket arround the install frame for waterproof and anti glass protection .
- 4) Confirmed the frame with a wire hole or sort before starting install. Should be attention to the connection of the circuit line. Pay high attention to circuit line when install smart glass in humid environment.
- 5) To prevent hard objects from touching the glass or welding spark burning glass after fixed install frame . When installing construction dust, welding sparks or other hard objects encountered in the glass surface can cause the damage can not be saved.
- 6) Do protection glass glue after install , we recormand GE Toshiba TOSSEAL381 neutral weather sealant.



Confirmed Project site



Glass vertical installation



Do glass glue



Testing power



Finished

## Power connection instructions:

Converter is on-off switch control.: Smart glass with two controle way . One is by remote and another can be controled by switch .

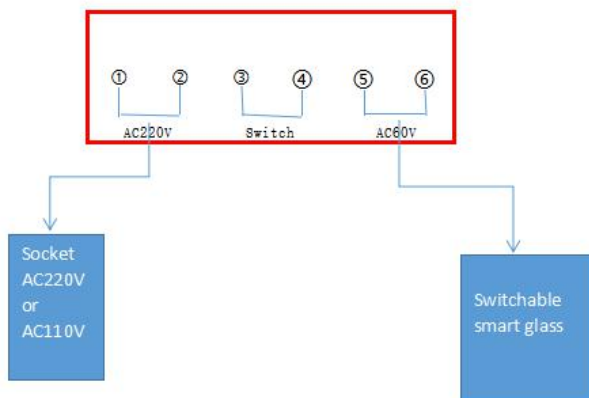
- Controle by remote method:

① ② Connect to power system (Most contries connect with AC220V ,only America market connect to AC110V power . Transformer is diffirence )

⑤ ⑥ Connect to Smart glass .

③ ④ Don't need to connect any wires when by remote controle

Details like as below draft



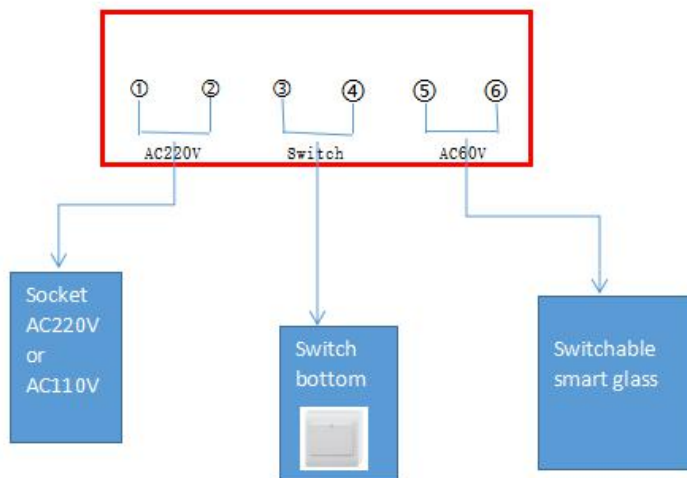
- Controle by switch system

① ② Connect to power system (Most contries connect with AC220V ,only America market connect to AC110V power . Transformer is diffirence )

⑤ ⑥ Connect to Smart glass .

③ ④ Putting wires to plug bottom

Details like as below draft



# Notice !!

- When package arrived destination. Check if package were good condition . Found any damage both package and glass , don't receipt it
- Testing smart glass working before install . This step is very important .
- Installation carefully with smart glass and follow up with our steps or accessories .
- Glass have 3 years warranty and transformer with 1 years warranty. Quantity issues will be replace new glass in next order during warranty time.

(1). The following issues are common quality problem : glass no work when package arrived , only lighting with half of smart glass , many bubbles , scratches on glass surface , etc.

(2).With following issues , we help you to solve problem

Smart glass can't working under no any permission from suppliers to tear out glass . Maintenance transformer without permission by suppliers instructions , pull out electric lines from glass , putting smart glass in waters etc .

When occur any problem , please contact with Zeelang Glass in firstly time.



How to contact us?

YOUR COMMENTS  
ARE WARMLY  
WELCOME!



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