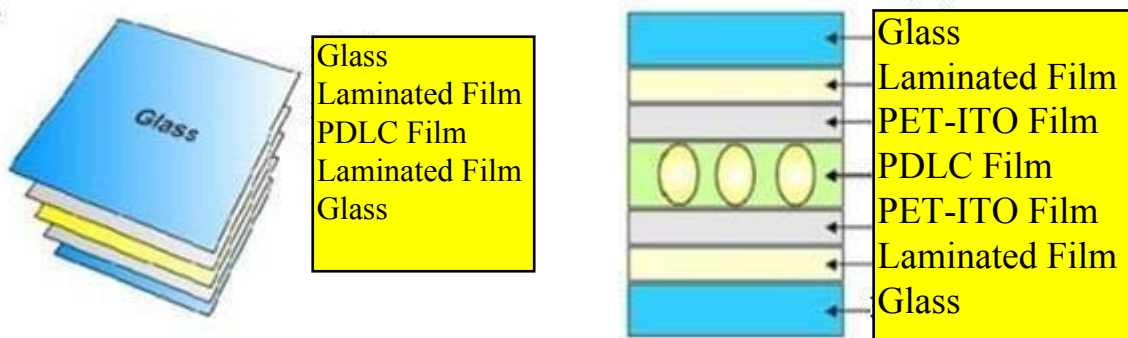


1 Switchable Privacy Glass

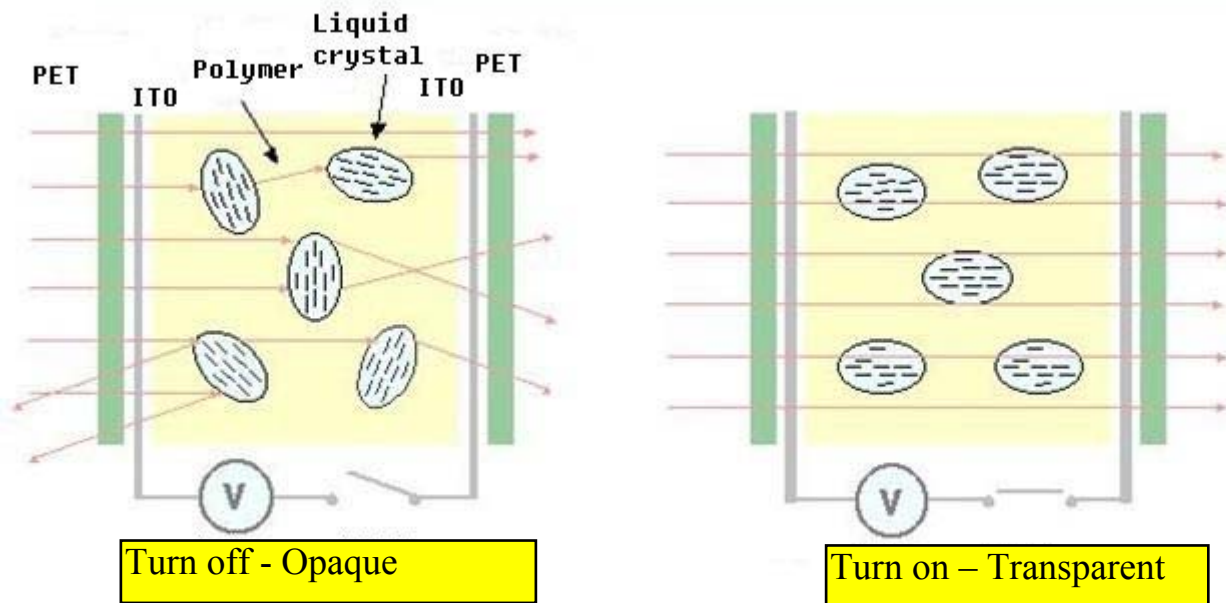
1.1 Brief : Switchable Privacy Glass have a function that the transmittance of the glass can be controlled by electrical switching. At The same time, they have a function of the real projection screen.When they are used as glasses with simple on-off switching function, they are called also by Magic Glass.



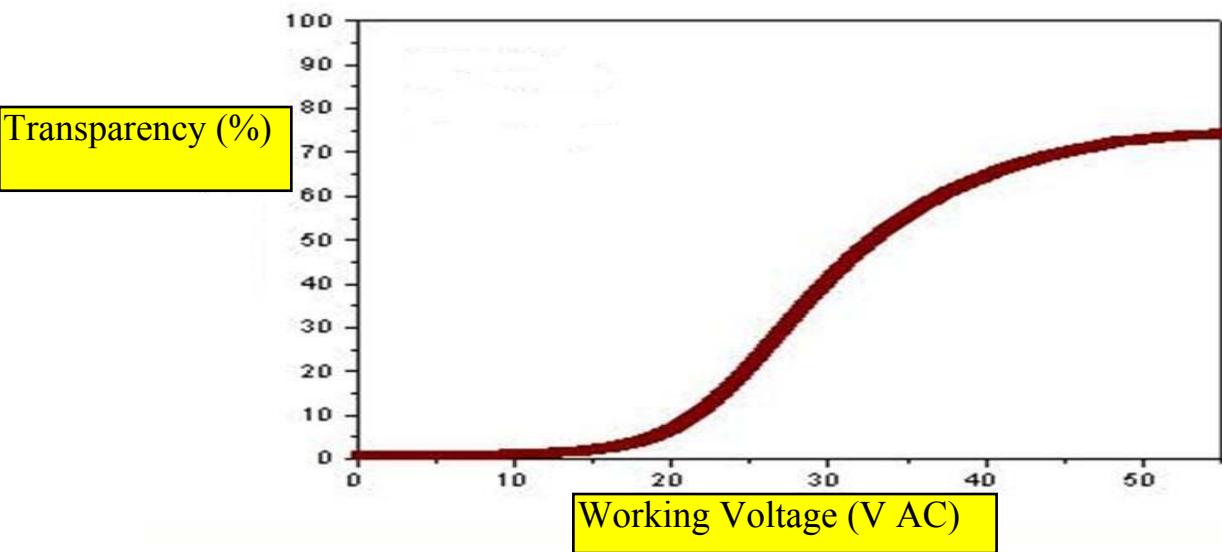
1.2 Construction: Above pictures are the layer structure of our Magic glass Our glass product is a laminated glass that contains the polymer-liquid crystal film between two pieces of glass. The switch functions are derived from the film-Magic Screen Film.Because of the adhesive film strongly sticking two piece of glass,it provides safety. It is hard to be broken, and even if it breaks there is no danger of glass fragment to scatter.



1.3 Operation:Protect Film+ PET film+ ITO film+ Polymer+ liquid crystal.



1.4 Transmittance and voltage:transmittance from 0~80% under voltage from 0~50V



2 Application : The glass can be turned from opaque to clear in 600MS, consumption is about 7W under 110VAC.

2.1 office partition



2.2 Generator Room partition



2.3 display cabinet



2.4 Project Screen



2.5 Hospital, Resturant, Store, Car windows etc.



3 Specification and Technical

3.1 Specification

GLASS TYPE	GLASS THICKNESS	Min Size (mm)	
Clear float glass, Low-Iron Glass, tinted glass, tempered glass etc	3+ 1+ 3 [7mm]	W	H
	4+ 1+ 4 [9mm]	100	100
	5+ 1+ 5 [11mm]	Max size (mm)	
	6+ 1+ 6 [13mm]	W	H
	8+ 1+ 8 [17mm]	1200	3000

3.2 Technical Parameters

Electrical characteristic

Operating Voltage: 50VAC ~ 100VAC

Frequency range: 50~60HZ

Amperage:100mA per square meter (for 110V)

Power consumption: about 7W per square meter (for 110V)

Switching speed: less than 1 second

From Frosted to clear:100 milliseconds

From clear to frosted: 400 milliseconds

Optical Characteristics

Operation mode: Transparent(power on)/Opaque(power off)

Parallel light transmittance:75±3%(ON) / 10±% (OFF)

Sunlight Transmittance: 80±1%(ON) / 60±1% (OFF)

Haze:2±1%(ON)/80±3% (OFF)

UV Blocking: more than 98%

Visible Angle:130°

Durability

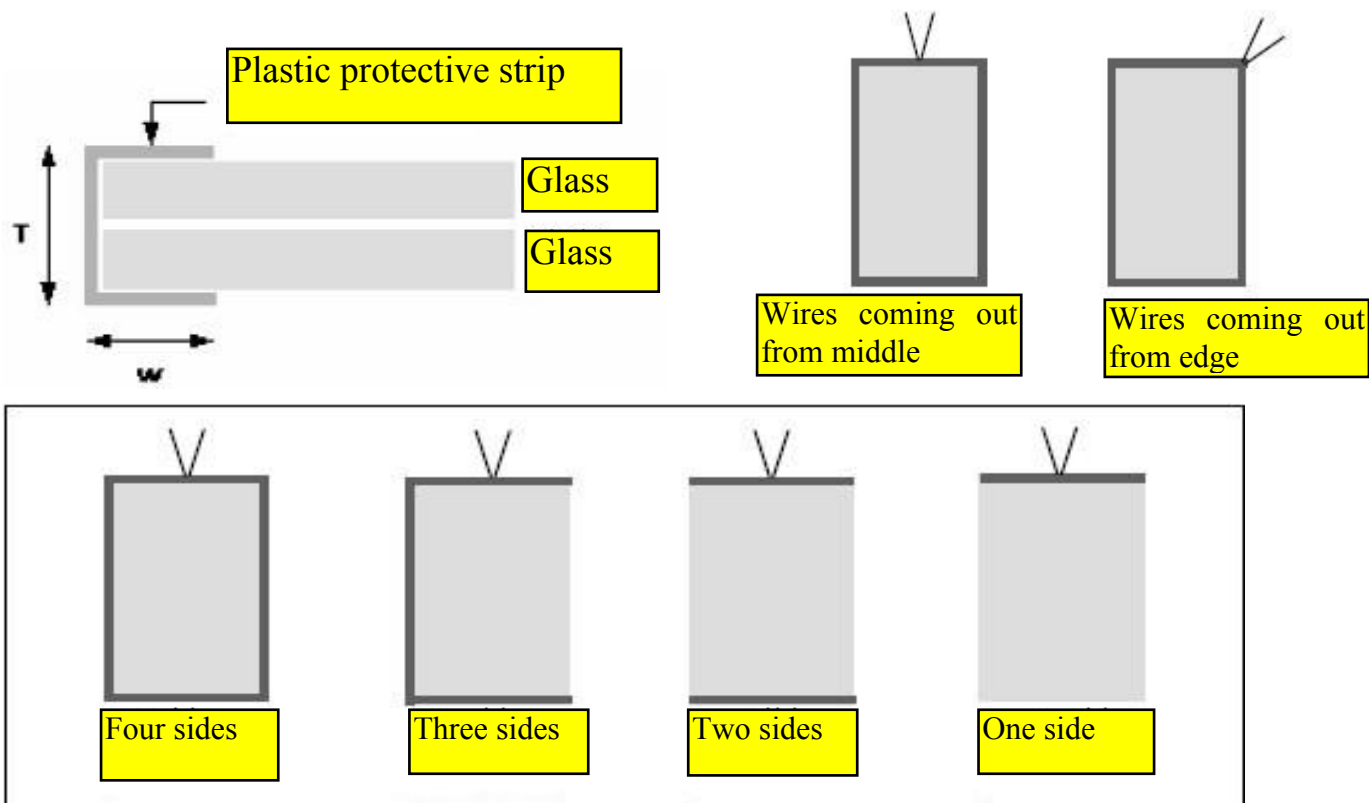
Item	Test item	Test Condition	result
1	Switching	on(1s) off(1s) 110VAC 3Mil.swtich	OK
2	High Temp.	70°C/14days	OK
3	High Temp./High Humid	50 degree,95%	OK

humidity/14days

4	Low Temp.	20 under degree/14 days	OK
5	weathering	KS L2004(Lami)	OK
6	Heat Resistance	KS L2004(Lami)	OK

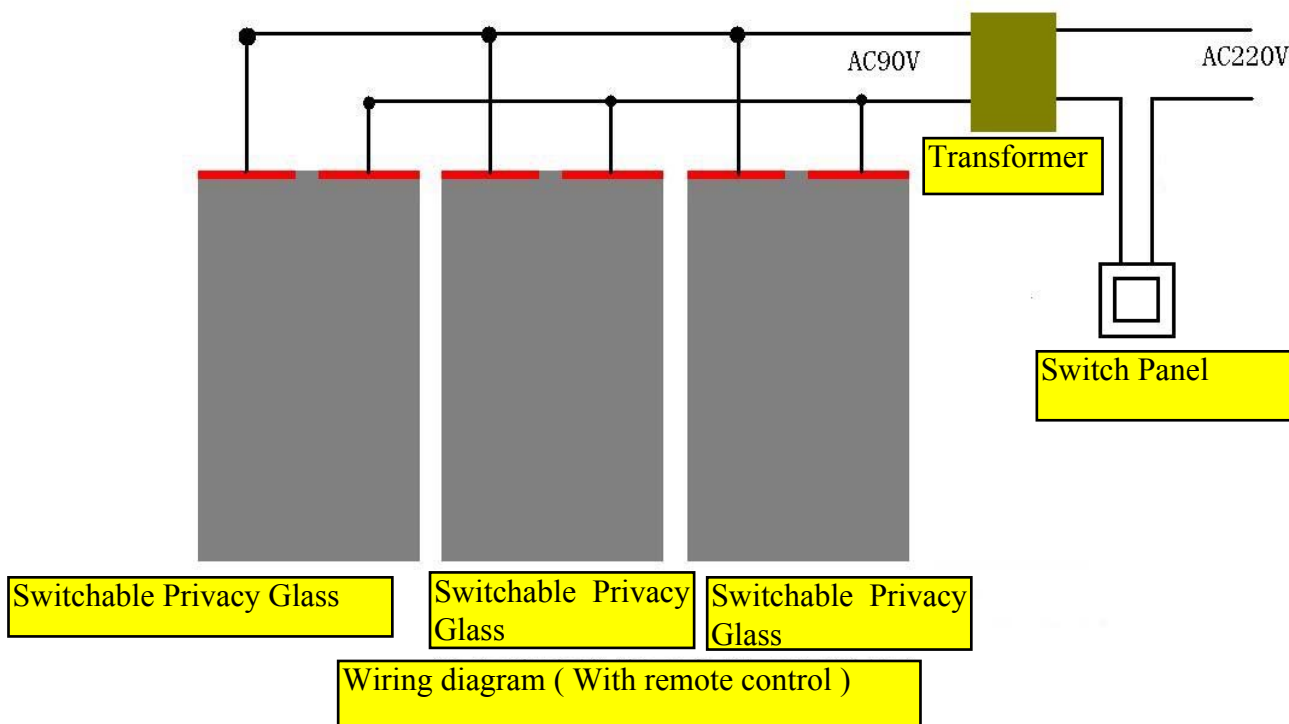
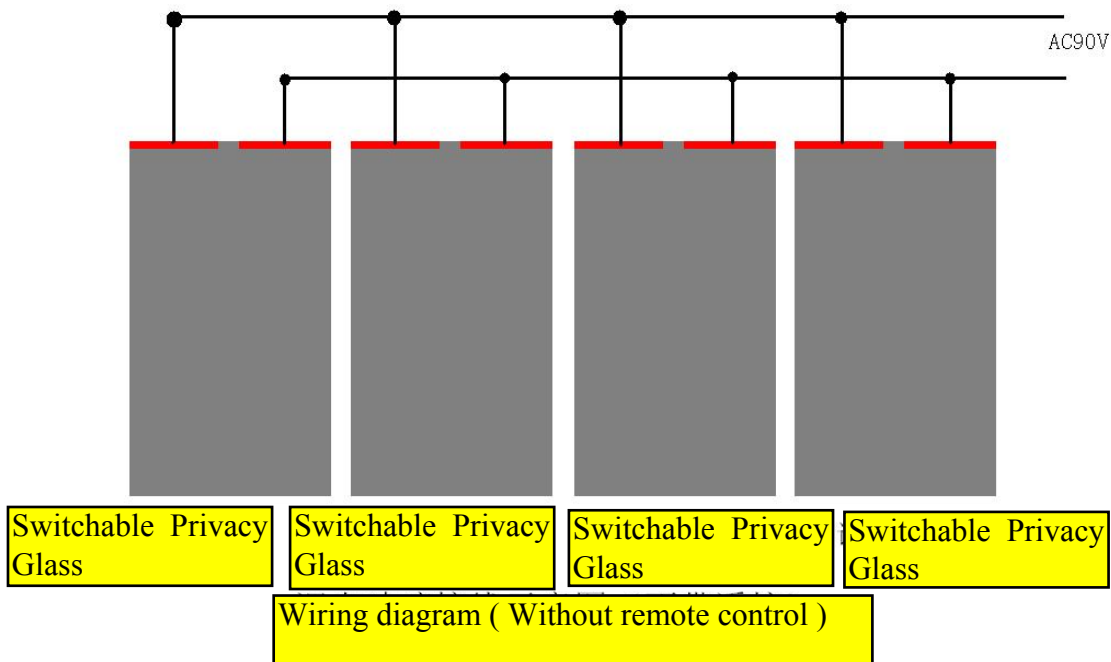
3.3 Plastic edge protector and electrical wire

Plastic edge protector should be located on the bus bar edge, Should not be damaged or removed.Edge for other three edges are optional.



4 Installation

4.1 wiring diagram





五 Project cases

Trinidad McDonald Street Shop	Empire Hotel HongKong
UK Wakefield WF2 Carlton Personal Living Room	HuangTing Hotel Shanghai
China Development Bank	Sheraton Hotel Chongqing
LG Twin-Building	Venice Hotel Mecao
Roadtraffic Authority Briefing Room Malaysia	Patuxai Hotel Mecao
Samsung Electronics C&T USA	Hong Kong Sanatorium & Hospital
Loote Castle Model House America	Kwong Wah Hotel HK
Posco City Tower	Spanish Pavilion Shanghai Expo
Daewoo E&C Trump Building	Korea Pavilion Expo
Seoul City Hall Call Center	Shanghai Technology Pavilion Expo
US Army In PyungTaek	Shenzhen University Music Hall
KT Briefing Room Cheonan	Poly Plaza Guangzhou
Daewoo Model House Thailand	Shenzhen Bao'an Court
KT Head office Briefing Room JP	Shenzhen Longgang Court
National Internet Development Agency	Military police Guangzhou
Pittsburgh MZK club	Armed Police Detachment Guangzhou
Beijing LA BAR	Petroleum Building Guangzhou
China Southern Power Grid Building	SEG Electronic City
China Unicom Wuhan City	Bauty Lam Commercial Center HK
Shangri-la Hotel Qinghai	IBM Building Shenzhen
InterContinental Hotels HK	Traffic information command center
Command Center Communications Commission	Huawei headquarters generator room
China Bank Nanshan Branch	Seventeen miles Vake Shenzhen
Shenzhen Golf Villa	China Mobile Building WuLuMuQi City
King Island Mansion Shenzhen	Hitachi Elevator China
HongKong International Airport	Sorrento Kowloon HongKong
Mid-Levels Hong Kong Villa	XinTianDi International Gardens Shenzhen
Villa World Dongguan	Latay Leisure Club VIP room Taiyuan City
China Bank Nanning Branch	Martell Showcase
Mangrove West Coast apartment Shenzhen	LV showcase HongKong
Western Villa HongKong	Asian Games Command Center Guangzhou
Health and Epidemic Prevention Center	YanTian Port International Building
China Mobile Headquater Guizhou City	Guangzhou Development Bank
Center Control Room Qingyang City	Vientiane ELLASSAY Changing Room SZ
Tourism Board Hongkong	Nanyang Commercial Center HongKong
Yue Shing Commercial Building, Central HK	Flextronics Electronics Conference Room
Disney testing Center ShangDong	Jun Development Center Kunming City
Avon Showcase Shanghai	Weiye Decoration Shenzhen
Public Office Building Mecao	Henderson Real Estate Head Office
BDA Center Mecao	Lion Lake Golf Villa Qingyuan City