

Smart glass or switchable glass is the glass that light transmission properties are altered when voltage, light or heat is applied. Generally, the glass changes from translucent to transparent, changing from blocking some wavelengths of light to letting light pass through.

Work principle:

When turn off the power of smart glass, the electronic control of the glass inside the liquid crystal molecules will appear irregularly dispersed state and the electronic control glass showed the station from transparent to translucent.

When turn on the power, the inside of the LCD Molecules appear neatly arranged, the light can be free to penetrate, then smart glass instantly showing a transparent state.

Advantages of smart glass:

1. Protect privacy: Smart glass have good function of protection of privacy.
2. Safety factor: Smart glass has the characteristic of safety glass.
3. When installed in the envelope of buildings, smart glass creates climate adaptive building shells.
4. Save costs for heating, air-conditioning and lighting.
5. Avoid the cost of installing and maintaining motorized light screens or blinds or curtains.
6. Blackout smart glass blocks 99.4% of ultraviolet light, reducing fabric fading.
7. Sound insulation features: the middle of the switchable glass film with sound damping effect and can block noise partially.

Smart Glass Specification:

Name: Switchable Glass, Privacy Glass, Smart Glass ,PDLC Glass, Magic Glass.

Technology: PDLC

Glass thickness: 4mm+4mm to 10mm+10mm etc.

Thickness of smart film: 0.5mm

Size: customized size, not beyond 1.8*3.3m.





Application:

1. Window glass
2. Partition glass
3. Door glass
4. Roof glass

