SPECIFICATION

S-LCG Specification

<u>Item</u> <u>Smart Glass</u>

Parallel Light Transmittance 80% On 2% Off Haze 3% On 95% Off

Power Source AC48/60V 50/60 Hz

Current 100mA/m2 Power Consumption <3.5W/m2

Response Time Off-On (10ms) | On-Off (200ms)

Glass Thickness 9.52mm, 11.52mm, 13.52mm laminated tempered

Maximum Size 4200mm x 2010mm

Operating Temperature -30°C - 95°C

UV Blockage 99%

Switching Cycle 5 million times
On Cycle 80 thousand hours

Visual Angle 160°

S-LCF Specification

Item Smart Film

Parallel Light Transmittance 80% On 2% Off Haze 3% On 95% Off

Power Source AC48/60V 50/60 Hz

Current 100mA/m2 Power Consumption <3.5W/m2

Response Time Off-On (10ms) | On-Off (200ms)

Film Thickness 0.48mm

Maximum Size 4200mm x 1800mm

Operating Temperature -30°C to 95°C

UV Blockage 99%

Switching Cycle 5 million times
On Cycle 80 thousand hours

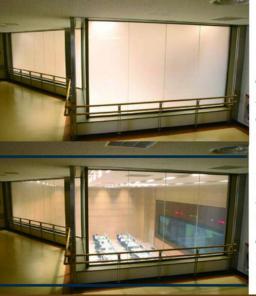
Visual Angle 160°C

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SWITCHABLE LIGHT CONTROL GLASS

S-LCG is a smart glass that switches from transparent to opaque and vice versa instantaneously.

It is operated by electrical signals and its dual functions provides a wide array of applications that can only be limited by one's own imagination.

MULTI-LAYERED GLASS SANDWICH HARNESSING THE CHARACTERISTIC OF A LIQUID CRYSTAL SHEET

S-LCG is manufactured by laminating 2 pcs of glass with a liquid crystal sheet. Harnessing the characteristic of the molecules in liquid crystal sheet that are randomly aligned when it receives no electrical signal thereby blocking the light path but aligned when an electrical signal is received to allow light to pass through.

It provides privacy in a neat way removing the need for messy curtains or blinds. The smart glass also provides thermal, U-V protection and sound insulation benefits as well as safety.

Liquid Crystal Sheet Clear Float Glass Intermediate Membrance

MULTI-LAYERED FILM SANDWICH HARNESSING THE CHARACTERISTIC OF A LIQUID CRYSTAL SHEET

S-LCF is a smart film that transform an existing glass from transparent to opaque for instant privacy and security. It is manufactured by encapsulating liquid crystal molecules in a polymer with self adhesive layer ready to be applied to a clean and carefully prepared glass surface.

It provides an alternative value-add in a functional way to an existing application without the hassle of messy and costly glass removal. But certainly not intended to be an ideal and cost effective solution for new installations.

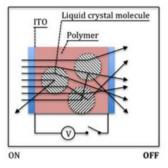


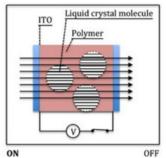


FEATURES

CHARACTERISTIC OF LIQUID CRYSTAL

S-LCG works on the characteristic of liquid crystal whose molecules are randomly aligned that disperses light making it opaque. And when voltage is applied, however, these same molecules aligned themselves to permit parallel light to pass through making it transparent.





FAST RESPONSE TIME

From opaque to clear in approx. 1/1000 sec or 100 millisecond and from clear to opaque in approx. 1/100 sec or 10 millisecond.

LOW POWER CONSUMPTION

Only 5 W/m2. Literally very low running cost compared to a single 40W incandescent bulb used in typical household lighting.

SAFETY

S-LCG being a laminated glass will prevent glass fragment to scatter about causing injury in the event of breakage.

WIDE OPERATIONAL MODE

As **S-LCG** operates with electrical signals, many different forms of activation can be utilised to trigger it as long as it cna be converted to electrical signal such as remote, sounds, sensors etc.

MANY APPLICATIONS

Applications are far and many. Ranging from nursery rooms in hospital, meeting rooms in office, project screen display in retail, shower rooms in homes to rail in transportations. It's usage can only be limited by one's own imagination.