

# LCD-Smartglass Electrified Privacy Glass



**IP**Glass Technology carries out:

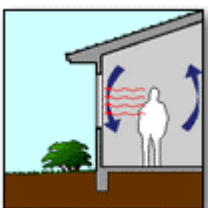
- Marketing and Sales Research
- Import and Export of Smart Glass Products
- Marketing and Sales of Smart Glass Products
- These Smart Glass Products include
- **LCD - smart glass** (Polymer-Assembled Liquid Crystal Display) Glass and Film technology.

**The LCD - smart glass technology will be spotlighted as a next generation of glass assembling technologies in global glass market.**

The LCD - smart glass products have been introduced as not only Glass but also Film-Type to the market. The LCD - smart glass products have a controlling function of light-transmission by electrical power on and off. By the diffusion effect of Liquid Crystal, the LCD - smart glass products can be applied as rear screen, regardless the type of product.

The LCD- smart glass products are widely applicable to architectural windows, various internal partitions and advertising display screens.

## Smart Glass/Film



By simply operating “On-Off”, a glass or film at an opaque state is converted into a transparent state.

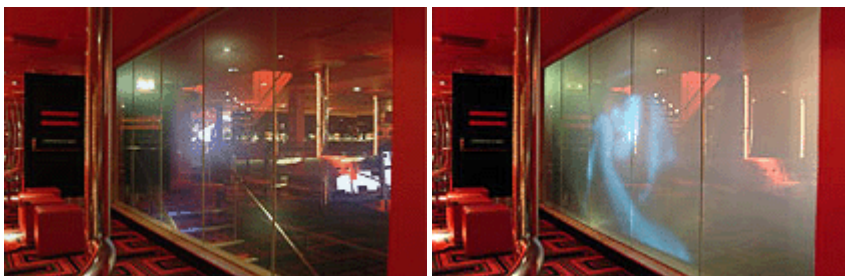
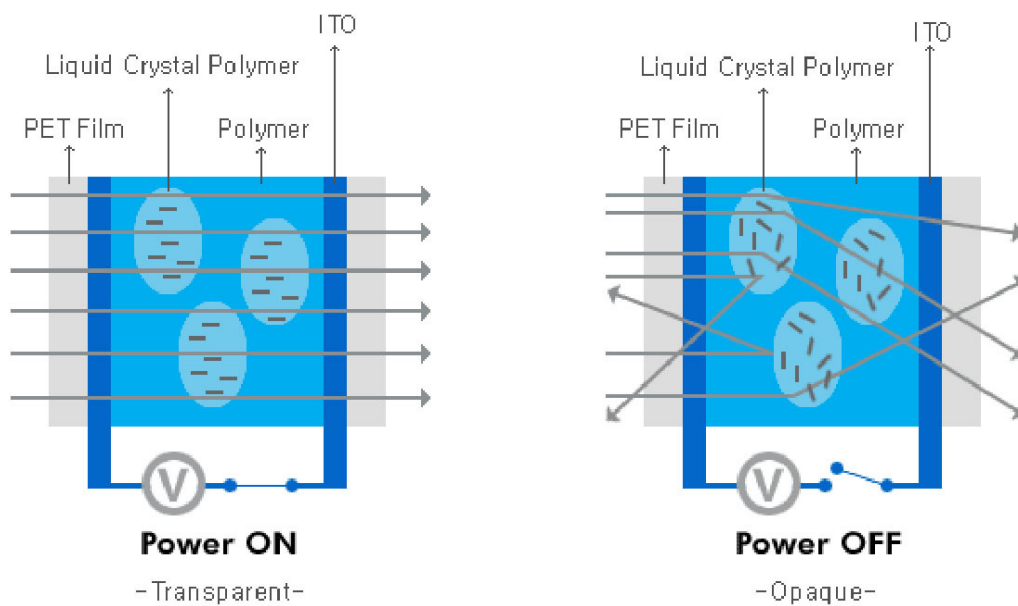
The solution, in living surroundings, for privacy and comfort

## Application

### Architecture interior



LCD – smart glass can be replaced with general glass used in architecture such as window glass and door glass, etc and used as curtain and blind with “ON/OFF” switch.



### Advertisement Screen

LCD – smart glass can be used in shops as a window screen for shop advertisement in front show-window, because it can be a rear screen and transparency/opacity can be chosen. Diverse dynamic images for advertisement & public relations can be shown by using a beam projector at night.

## Technical details LCD – Smart Glass

### Characteristics

Maximum sizes up to

Standard composition

Weight

Maximum or minimum temperature

Back projection as a screen in translucent state

Multi-purpose product

Sound insulating glazing

- sound insulation
- 2800 x 1000 mm
- 11 mm : two 5 mm laminated sheets
- 11 mm : 27.5 Kg/m<sup>2</sup> (2.5 kos/m<sup>2</sup>/mm thick)
- -20 °C to +60 °C

In combination with:

- Fireproof
- Solar control
- Sound insulating
- Non-reflecting glass

RW noise-reduction ratio of 36dB

### Optional

Component

Curved

Tempered glass

Colored

External windows

Silk-screen printed

Floor tiles

Opening or sliding doors.

Polycarbonate:

(1.1 kos/m<sup>2</sup>/mm thick)

Radius of 300 to 3000 mm

Range of tinted glass: grey, green, bronze, extra clear, etc.

Double glazing with solar control layer.

The laminated pane is placed on the inside

### Exclusion

Drilling

Roof glazing

Blackout purposes

Glue

76% light transmission in off mode

The weight has to be held in a frame

### Power supply

Voltage

Transformers

Switches

Power consumption

100 VAC

TPC10 : 10m<sup>2</sup> ; TPC3 : 3m<sup>2</sup> ; TPC1 : 1m<sup>2</sup>

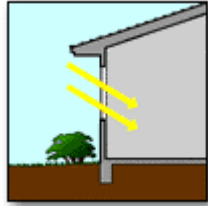
Bipolar, fitted to the primary

less than 5 watts/m<sup>2</sup> (only in transparency)

## Advantages

Five features in one type of glass

- UV - blocking



- UV - blocking

- transparency (On)
- translucency (Off - privacy)
- screen
- safety (laminated)
- sound insulation
- 98%~

In combination with:

- Fireproof
- Solar control
- Sound insulating
- Non-reflecting glass



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