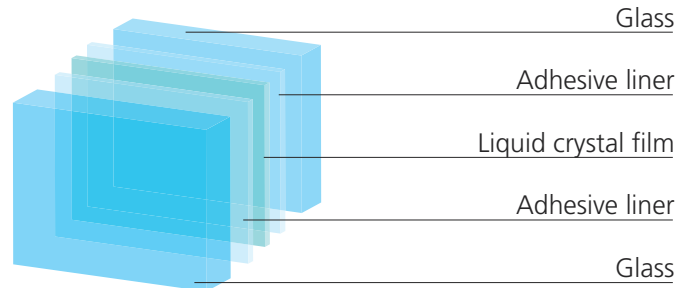


ipaview CF The aesthetic way to prevent transparency.

Product variants:

- Composite glass - either as single pane or insulating glass (Interpane)
- Composite glass types 8/2, 10/2
- Available as tempered toughened safety glass and prestressed heatstrengthened glass
- In combinations with most types of glass
- Other structures are available on request



Technical data and special features:

- Low power consumption
- Switching time <10ms
- Switching cycles > 3.000.000
- Dimensions: max. 1200 mm x 3000 mm, min. 200 mm x 300 mm, other dimensions are available on request
- Cable extensions up to max. 20 m
- Clear edge all round up to max. 10 mm
- Geometries: rectangular, other shapes are available on request
- Standard delivery: Electronic ballast included

Screen:

Both sides, front and back, can be used as high-resolution projection screens. Images can be projected both front and back.

Technical data ipaview CF:

	Transparent	Opaque
$T_{(L)}$	approx. 79 %	approx. 70 %
$T_{(UV)}$	approx. 4 %	approx. 3 %
$T_{(e)}$	approx. 68 %	approx. 61 %
Solar energy transmission (g)	approx. 74 %	approx. 69 %

e.g. in the following structure:

4 mm glass / adhesive film / LCD polymer / adhesive film / 4 mm glass

Interpane Glas Industrie AG has its headquarters and its research and development center in Lauenförde/Weserbergland (Germany); it is one of the most important and most experienced glass refiners in Europe. In its eleven factories, all over Europe, Interpane manufactures glazing products of the highest quality. Interpane's product spectrum comprises high-quality laminated thermal insulation glass, glass providing acoustic insulation and protection from the sun's radiation, various types of safety glass, plus numerous glazing products for structural design purposes. Interpane also produces float glass for applications in the construction industry and the solar power sector.

Dimensions available on request:

Standard thicknesses:

11 mm, 12 mm, 14 mm

(Thicker elements are also available on request)

Tints and colors

neutral, extra-white, bronze, gray, green and blue

Installation:

ipaview CF is best suited for interior applications. Use as exterior glazing is subject to prior approval by Interpane. ipaview CF may be used at ambient temperatures between -20 and +60 °C.

Transformer for primary voltage of 230 V, 50 Hz. Power consumption is less than 5 Watt/m². A set of connection instructions is included with the product.



Interpane

Northampton Science Park

Technology Unit B 20

Babbage House

Kings Park Road

Moulton Park

Northampton NN3 6LG

GREAT BRITAIN

Tel.: 0044 16 04 65 41 32

0044 16 04 65 41 33

Fax: 0044 16 04 65 41 34

E-Mail: uk.office@interpane.com

www.interpane.com

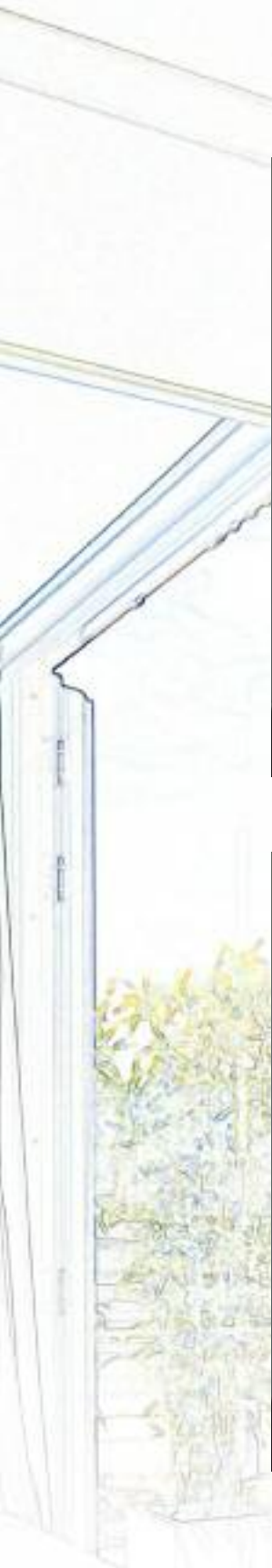


ipaview CF

The intelligent way to provide transparency.



Liquid crystal (LC) glass whose viewing characteristics can be switched by remote-control.
Transparent or opaque - all at the touch of a button.



Just take a look !

There are moments when one simply needs to be shielded from inquisitive glances - without a lot of fuss, without having to close the curtains, blinds, or shutters - as quickly and easily as possible - all at the touch of a button. There are also moments when one needs to inform, convince, or even surprise a business partner or customer - with innovative technology - as easily and conveniently as possible - all at the touch of a button. This might be in the office, in public, or in private - for advertising purposes, a product presentation, or at exhibitions and trade fairs. There are moments when it just has to be ipaview CF - the glass with so many astonishing extras - always translucent and, as and when you want, transparent - or opaque - or an informative screen - all at the touch of a button.

Let's take a closer look

ipaview CF is both aesthetic and intelligent; with ipaview CF you can by remote-control either provide or prevent transparency; this state-of-the-art technology can act as a partition wall system in open-plan offices and conference rooms, provide discretion at cash-points, and ensure additional security both for products and for persons. It can be used indoors in combination with insulating glass, as a rear-projection screen in the design of shop interiors or exhibition stands - or for all outdoors advertising.

Exclusive effects

Whether you are an architect, building contractor, construction company, or private builder, ipaview CF brings an exclusive and exciting architectural highlight to modern interior design. ipaview CF can help you make the most of glass and light in an aesthetic and practical way. This electronically controllable LC composite glass can be switched to your required settings - in a split second - clear and virtually transparent - or milky-white opaque. Give free rein to your ideas - the possibilities are virtually infinite. ipaview CF is available made-to-measure, coated, in individual designs, shapes, and colors.

Intelligent glass

ipaview CF is a remote-control LC composite glass that can temporarily seal off selected rooms or areas to inquisitive glances or shut out sources of dazzle. A pane of ipaview CF glass can - at the touch of a button - be switched from virtually transparent to opaque - without losing any of its original translucence. You can in this way create your own area of privacy while at the same time retaining the room's original brightness.

The choice is yours.

Totally transparent / a translucent but opaque screen / an eye-catching display

ipaview CF. The intelligent glass - for surprising and exciting views

- Open and transparent - or - private and discreet - your choice at the touch of a button
- Intelligent partition wall system
- Variable atmosphere in reception areas and conference rooms, in the gastronomic sector, and in private homes too
- Additional security for businesses and banks
- Laminated safety glass combined with fire-resistant glazing materials
- Innovative multimedia rear projections for windows, doors, and partition walls
- Information screen and advertising space for exhibition stands, trade fairs, and shop interiors
- Fascinating possibilities for visualizing products and fields of business
- Whether clear and accessible or opaque and private, ipaview CF is always stylish - the fascinating way to convert public areas.

Innovative technology

ipaview CF comprises two sheets of plate toughened float glass enclosing a liquid crystal (LC) polymer film embedded between two indium tin oxide (ITO) coated foils. In the absence of electrical power the crystals will remain unarranged so that the glass will, though translucent, be milky opaque on both sides and thus suitable as a screen against inquisitive glances or unwanted dazzle. When and for as long as a low voltage is supplied to the liquid crystal film the crystals will be arranged in such a way that the glass is now virtually transparent.

Large-format information screen

ipaview CF can, in its opaque state, also act as a large-format display or high-resolution screen. With the aid of a (large-format) beamer or projector you will be able to present and view TV, video, DVD, or PC images. Or you can run product demonstrations. ipaview CF can be used as an information screen or as advertising space; it is a real eye-catcher for product presentations or at exhibitions and trade fairs. The light scatter effect of the liquid crystals ensures outstanding luminosity and color intensity.

A wide variety of shapes and forms

ipaview CF is a composite glass produced normally from prestressed glass. Panes of ipaview CF can thus - as and when required - be further processed in various combinations with insulating glass. This glass, crystal-clear or tinted, can be cut to any dimensions, drilled through, and reshaped in circular form.

Easy installation

Our ipaview CF intelligent glass is supplied as a ready-to-use plug-and-play package. It can be connected to the existing power supply quickly and easily via its integrated power connector. This switchable glass is - thanks to its low power consumption - also environmentally friendly. Our authorized partners (also near you) can on request ensure that the product is properly installed.



• Composite glass system - for the highest possible level of security • Exactly the design you want • Can be integrated in bullet-resistant glazing systems • Visual protection for employees • Practical visualization of counter opening times • Makes curtains, blinds, and shutters superfluous • An eye-catching vehicle for advertising and "infotainment" • Ideal for theaters, concert halls, conference rooms, reception areas, television studios, elevator cabins, changing rooms, control rooms, ship interiors, events, exhibitions, trade fairs, shop window displays, outdoor media, windows, doors, shop fronts, business fronts, etc.