

SMART GLASS

KL@megla Smart Glass **the Concept**

KL@megla Smart Glass: active glass which, under the effect of an electric current, switches from translucent to transparent with no alteration of light level. It offers users the choice between privacy and visibility and even communication: in its “off” state of translucency, **KL@megla Smart Glass** constitutes an ideal back-projection screen.

Applications include: the habitat, hotels, health, services, trade, transportation, signage, television, theater, publicity, art...

Switches from translucent to transparent with no alteration of light level.





KL®megla Smart Glass **the Benefits**

- optimized structuring of space
- simple, instantaneous and reversible change of state with no alteration of light level
- eco-footprint: low electricity consumption
- multiple applications: day/night, vacant/occupied, indoor/outdoor
- reliability over time proven through 15 years' experience
- “plug & play” installation requiring a single **KL®megla Smart Glass** certified contractor
- an International network of certified installers + the guarantee of **KL®megla**

KL[®]mepla Smart Glass the Technology

Two sheets of extra-clear glass encapsulate a liquid crystal film "sandwiched" between two EVA interlayer films. The film is constituted by two plates of polyethylene terephthalate (PET) films coated with a transparent metallic deposit and laminated together thanks to a very fine layer (a few microns) of liquid crystal gel.

When a +/- 50 volt current (50 Hertz) is switched on by lateral copper electrodes, the liquid crystals orient themselves in the same direction; the initially milky film is instantly transparent! In its "off" state of translucency, **KL[®]mepla Smart Glass** constitutes an ideal back-projection screen.



Why KL®megla? **KL®megla is synonymous with quality.**

KL®megla product line begins with only the finest and highest quality materials. Each piece is manufactured under the strictest standards, to consistently deliver the superior solutions that our customers have come to know and expect. **KL®megla** also works closely with leading design trend forecasters to ensure that its products reflect a timeless appeal.

With this unique integration of superior materials, German engineering and award winning design, the **KL®megla** product line is elevated to a level of quality and luxury that fosters an emotional connection with our customers.

Products and components are tested rigorously and certified to ensure their performance for a lifetime.

With **KL®megla** unrivaled quality, adjustability and innovative design, our products guarantee a long and sustainable life cycle.



