

LIGHTSCREEN

INNOVATION

THERE IS A BETTER WAY!

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Vehicle windscreens can be polarized, electrochromic and transitioning to provide a clearer view in varying lighting conditions. While much research needs to be done to optimize the blending of these technologies together with demisting and de-icing, the result would allow much greater visibility in changeable conditions, offer increased privacy and even total blackout when required.

Electrochromic film, also known as electrochromic window tint or “switchable” film, is a unique product that turns windows from transparent to frosted or tinted on command. It can be used in a variety of installations, from interior to exterior, where on-demand privacy or sun protection is required.

Electrochromic is a word used to describe materials that can change color when energized by an electrical current. The electrochromic tint of electrochromic windows is controlled by the amount of voltage applied to the glass. At the press of a button, the voltage changes, causing a reaction within the electrons that changes the way it reflects light.

The main advantage of these smart glass windows is that you can directly control the switchable nature so that you can tint the window when needed but leave it transparent in other situations. This maximizes access to views and the desired amount of light, allowing design freedom and giving architects the ability to design without blinds or other window shades.