

Goodbye blinds! The interactive plane windows that **SELF-TINT**, display the flight path and communicate with cabin crew

- French company Vision Systems has created self-tinting window for planes
- The solar-powered technology is different from those used on Dreamliners
- It can be controlled by light, temperature and even the position of the sun

The Boeing Dreamliner has windows that tint with a touch of a button - but plane windows are about to get even fancier.

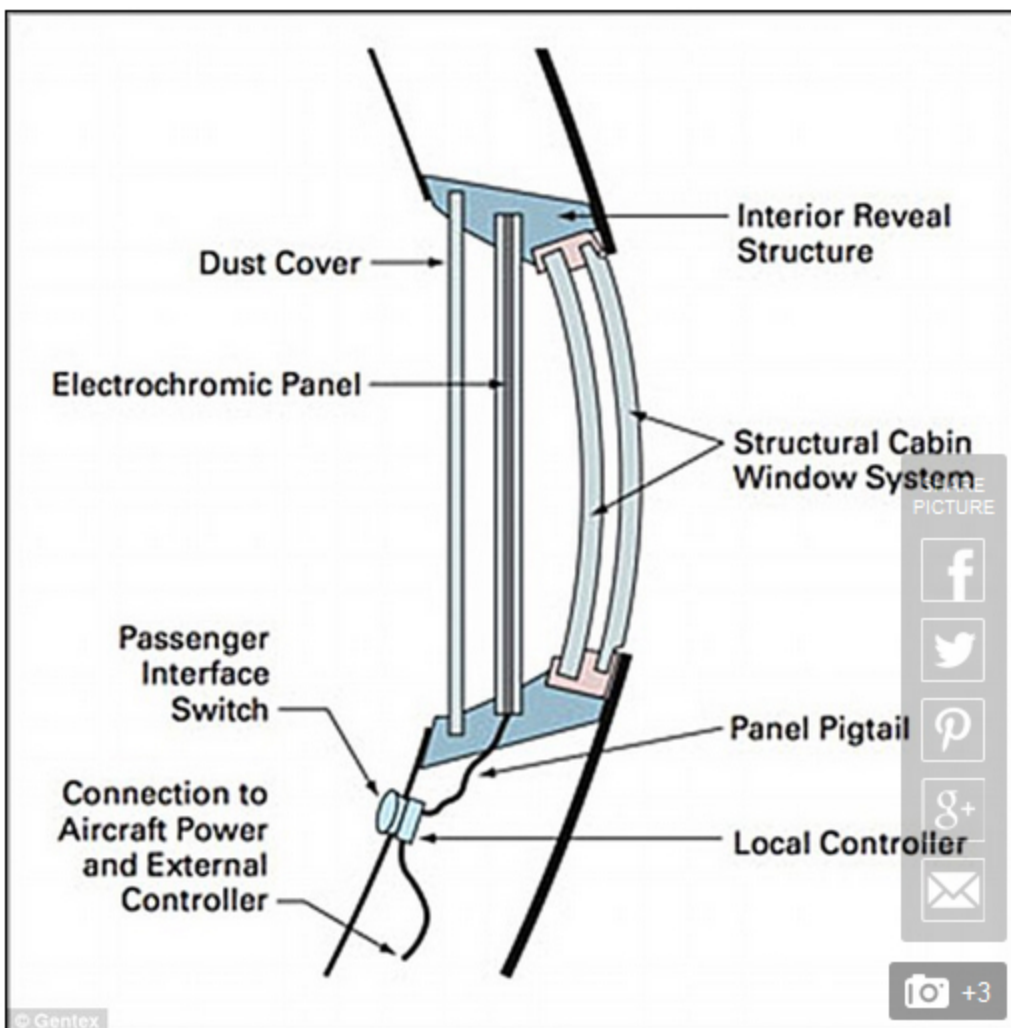
French aerospace firm Vision Systems is working on a plane window concept with 'active vision'.

The idea is that the window tints automatically and also becomes a mini interactive screen that can show the plane's flight path and be used to communicate with airline staff.



© Vision Systems

French company Vision Systems is creating self-tinting window for planes that will darken within seconds



The new technology is similar to the current design used by Dreamliners, which is produced by Gentex.

A representative from [Vision Systems](#) confirmed with MailOnline Travel that the technology for self-tinting windows already exists.

The system, which is named Nuance by the company, can be fully automated using parameters such as light, temperature and even the position of the sun to control the opacity of a window.

It's an upgrade on previous systems, which required users to push a button.

The tinting technology on Dreamliners is currently being produced by [Gentex](#).

It involves having an electrochromic panel that's installed between a dust cover and the cabin's regular windows.

The panel is coated with a special gel that becomes opaque when electricity is applied to it.

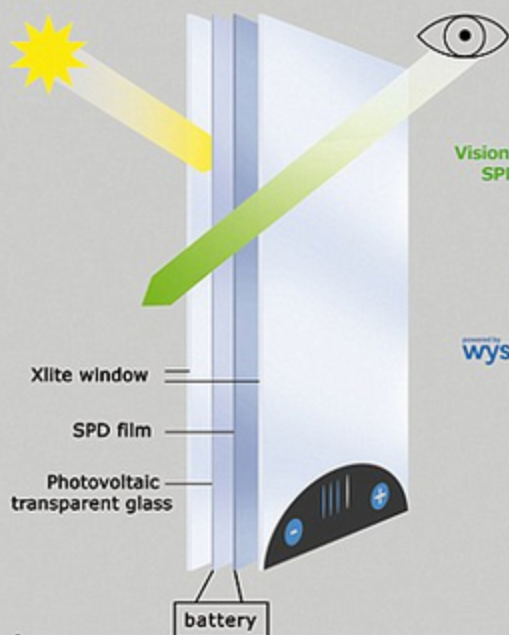
By pressing a button, users can vary the amount of electricity applied to the gel, which in turn changes the opacity of the panel, effectively eliminating the need for blinds.

Vision Systems' technology is very similar but with some key differences.

Innovation in aviation: Solar power planes and tinted windows



Reduce fuel, installation and maintenance costs...



Vision Systems' SPD solution

+

wysipsGlass

- Self-powered dimmable window
- Gradually dimmable from clear to dark
- Fast switching light control
- Capacitive buttons
- Transparent photovoltaic cells integrated into the glazing
- Energy stored in battery
- Electricity reusable for lights or PEDs charging

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...with a light, integrated, autonomous solution!

© Vision Systems

The technology is solar-powered and offers UV protection, but could have interactive features in the future

Nuance is based on Suspended Particle Device (SPD) technology, which operates in the same way as the electrochromic panels except the film goes opaque when electricity is not applied to it.

The specification reveals that the transition between light to dark is just a matter of seconds, compared to several minutes in the electrochromic system.

It also offers 99 per cent UV protection when the windows are darkened.

It works via a device that will automatically alter the amount of electricity being pumped through the window depending on the amount of sunlight hitting it or variables such as temperature.

The company is also offering the same technology for yachting and motoring industries.

However, the interactive features, reported by [Wired](#), including maps and flight paths, is still a work in progress but 'not impossible'.