BREAKTHROUGH SMART WINDOW AND NEW ELECTRONICALLY DIMMABLE WINDOWS FROM VISION SYSTEMS

News / Business aviation, Events / Festivals, Manufacturer

Vision Systems will demonstrate again its expertise in shading systems with a dimmable window with transparent touch panel, and a shade with a dimmable dust panel. At the forefront of innovation, the company will also present a new concept of smart window. Lastly, In-Flight Entertainment solutions will be exhibited with a focus on regional aviation.

Vision Systems' dimmable solutions make it possible to eliminate shades for a greater feeling of space. They allow the passengers to instantly change the opacity of their window from clear to dark, or part of it, in order to regulate daylight, glare and heat entering in, while preserving the view. They enhance visual, thermal and acoustic comfort for a better wellness atmosphere.

In addition to providing superior optical performance and reliability, Vision Systems' dimmable solutions offer many advantages over other dimmable systems. Using an SPD film, they allow variable shading and instant response time. A significant heat gain reduction contributes to a considerable reduction of air conditioning consumption and to more comfort for passengers when entering the cabin. Their fabrication also involves noise barriers for improved acoustic insulation.

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The in-house developed electronics are fully integrated, reducing maintenance costs and downtime (no moving parts), and installation is often limited to a simple mechanical operation, which proves to be very advantageous for the aftermarket.

One of the latest innovations developed by Vision Systems, that will be exhibited at the show, is a **multizone dimmable window with an integrated transparent control panel based on electroluminescent technology**. This elegant digital shade provides opacity control of a chosen zone directly on the window, for a greater comfort and traveling experience. The sleek design of the solution conveys a modern high-end image allowing for **brand differentiation**.

Other dimmable solutions will be displayed at AIX 2019: for the cabin window, Nuance Ultra-Dark, and Noctis the solution for blackout and privacy ; and for the **cockpit**, Nuance Smart-Shell the only add-on solution covering the entire side windows.

The company will also display a brand new **motorized shade for two windows with a dimmable front panel**, proposing an elegant alternative for privacy and blackout. Vision Systems offers a complete range of shading solutions, including high-end manual or motorized shades, either roller or pleated, with synchronizing system and diagnosis assistance. These shades are light and compact, customizable, and provide a high-quality fit and finish.

Last year, Vision Systems disclosed a dimmable window and a divider with integrated electroluminescent information. This year it will unveil a **new concept of smart window displaying images and videos directly on the aircraft window or cabin divider** such as useful information or advertisement. The background uses a PDLC technology allowing privacy (opaque white or grey) or transparency when nothing is displayed on it.

Concerning wireless Inflight Entertainment systems, Vision Systems offers hardware solutions through its Media-Hub solution (<50 PAX) and its Visi-Stream solution (>50 PAX), and can also provide standard AVOD or develop a customized solution based on tailor-made content and targeted advertisements to ensure ancillary revenues. Vision Systems is the single contact for installation, maintenance and content update, although the airlines can choose to change the interface and the content themselves, in a few clicks. A portable solution is available for trials.

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