VISION SYSTEMS UNVEILS SECOND GENERATION OF ELECTRONICALLY DIMMABLE WINDOW AND LATEST SMART INTERACTIVE WINDOW

News / Business aviation, Events / Festivals, Manufacturer



Following the establishment of Smart Lite, **a new division devoted to the design, production and commercialization of electronically dimmable solutions** last September, Vision Systems is proud to disclose its latest innovations at AIX 2017: Nuance V2, the new generation of Electronically Dimmable Window (EDW), and Acti-Vision Window, the smart interactive window shortlisted at the Crystal Cabin Award under the name of Smart-Info Window.

Vision Systems' electronically dimmable solutions allow passengers to tune the tint of their window from clear to dark in order to regulate daylight, glare and heat entering in, while preserving the view. They enhance visual, thermal and acoustic comfort, for a greater wellness atmosphere.

With Nuance V2, Vision Systems continues to widen the gap with its competitors; the new solution provides unprecedented optical quality, with haze close to 3% and clarity as high as 99.8%.

The Nuance V2 project comprises UV, IR and hydrophobic barriers, integrated electronics developed in-house and a touch panel. Like the other solutions of the range, Nuance V2 is suitable for both new programs and retrofitting.

Other dimmable solutions will be exhibited at AIX 2017: for the cabin window, Nuance Bi-Zone,

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Nuance Ultra-Dark, and Noctis for blackout and privacy; and for the cockpit, Nuance Smart-Shell the add-on solution covering the entire side windows, and Nuance Energia the dimmable self-powered sun visor.

Vision Systems' EDWs are unique on the market today and offer **many advantages over other systems**. Based on SPD technology (Suspended Particle Device), they provide infinite variable shading from fully clear to an extremely dark state (over 99.9% light blockage) and **instant response time**. Maximizing heat rejection and **keeping the interior cooler on the tarmac**, they contribute to a reduction of air conditioning consumption. These solutions block harmful UV light (and IR as an option), and their fabrication involves **noise barriers** to keep the cabin quieter. Vision Systems' EDWs also deliver a **weight reduction** of about 30% compared with motorized shades, and do not add weight in comparison to a window with a manual shade. Furthermore, they have no moving parts as the **electronics are fully integrated**, reducing maintenance costs and downtime. They can be incorporated into **flat or curved surfaces** (2D, 3D), use **plastic or composite glass**. All these solutions can come as a whole to replace the entire window. Installation is often limited to a simple mechanical operation, which is very advantageous for the **aftermarket**.

Vision Systems' range of dimmable solutions includes bespoke privacy systems and dividers.

The company will also display high-end **motorized roller and pleated shades** with synchronizing system and diagnosis assistance. These shades are customizable and offer a high-quality fit and finish. As the world leader in cockpit solar protection, Vision Systems will showcase roller blinds and sun visors specifically adapted to the pilots' environment.

As for IFE, Vision Systems will exhibit the latest version of **Acti-Vision Window**, developed in response to the airlines’ need to improve their operating margin while offering products and services adapted to the growing requirements of their customers. This innovative window allows the passenger to interact through a touchscreen with the information and on-board services displayed, like interactive maps, tourist information, news, snacks & drinks orders. The background can be adjusted from clear to dark for perfect contrast and readability (integrated SPD solution). Priority announcements can be pushed through the Flight Attendant Panel onto the aircraft window and specific advertising can be addressed to a particular passenger. **Through advertising, passenger solicitation to purchase “on window”, and the additional cost on the ticket for a window seat, Vision Systems’ solution provides a new source of revenue for the airline.**

Vision Systems will also present its wireless BYOD system **Visi-Stream that guarantees greater customer satisfaction and ancillary revenues for a high return on investment**. It comprises Wi-Fi AVOD allowing the connection of 200 personal devices simultaneously with one box, with a rich and varied content including movies, music, games, daily press, extensive tourist information and ticketing. Advertising can be global and local, and priority data flows for safety videos put the tablets on hold. Options include broadcast or connectivity as well as remote diagnosis, software and content updates via a ground platform. Different configurations are possible with personal or company tablets. For each airline, Vision Systems develops a customized user-friendly interface and content.

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Lastly, the company will unveil its brand new cable-free system **Media-Go, a stand-alone onboard entertainment solution** dedicated to regional aviation. Operating on battery power, this portable system does not require any connection to the main electrical system meaning no specific installation and no STC. The absence of cable and the light weight of the box (<3 kg) provides weight saving, and the system powers up very simply with an on/off button.

Vision Systems is the single contact for installation, maintenance operation, and content update after analysis of usage statistics.

Some of Vision Systems' **customer references in aeronautics** include: Dassault, Epic, Airbus Helicopters, RUAG, HondaJet, BCA, Sabena Technics, ATR, SuperJet International, La Compagnie, Embraer, Amac Aerospace, Boeing…

Please enjoy Vision Systems' video on EDWs

Please enjoy Vision Systems' video on IFE

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