



Vision Systems to unveil second generation Electronically Dimmable Window and latest smart interactive window at AIX 17

Following the establishment last September of Smart Lite - a new division devoted to the design, production and commercialization of electronically dimmable solutions - Vision Systems will be presenting its latest innovations at Aircraft Interiors Expo (AIX) in Hamburg, Germany, April 4-6th.

The products are: 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.



Nuance window.

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

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.

Aircraft Interiors Expo, 4-6 April 2017, Hamburg, Germany, Booth #2D28.

