VISION SYSTEMS' ELECTRONICALLY DIMMABLE WINDOW AT PGG STAND

News / Business aviation, Events / Festivals, Manufacturer

Following PPG and Vision Systems' recent announcement to develop aircraft window shading applications, PPG will showcase Vision Systems' dimmable solution Nuance V2, the second-generation Electronically Dimmable Window (EDW) at EAA AirVenture Oshkosh 2017, Wisconsin, USA.

Vision Systems' electronically dimmable solutions enable passengers to tune the tint of their window from clear to dark to regulate daylight, glare and heat entering in while preserving the view. They offer a sleek, elegant design and enhance visual, thermal and acoustic comfort. Based on SPD technology (Suspended Particle Device), they provide infinite variable shading from fully clear to an extremely dark state 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

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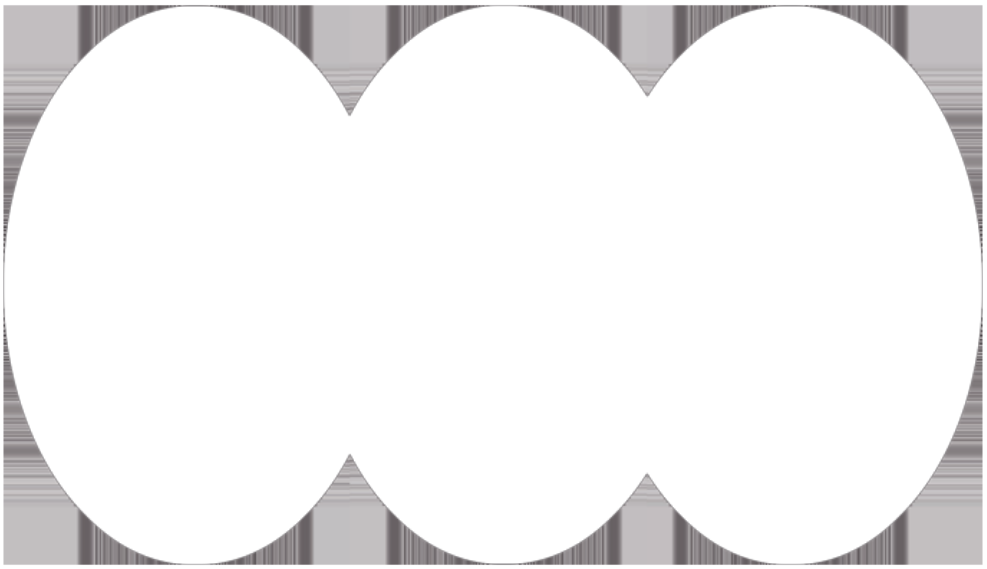
to a window with a manual shade. Furthermore, they have no moving parts as the **electronics are fully integrated**, reducing maintenance costs and downtime. They can be incorporated into **flat or curved surfaces** (2D, 3D), use **plastic or composite glass**. They can come as a whole to replace the entire window; installation is often limited to a simple mechanical operation, which is very advantageous for the aftermarket.

With **Nuance V2**, Vision Systems continues to widen the gap with its competitors; the new solution provides unprecedented optical quality, with **haze as low as 2.5% and clarity as high as 100%.**

Based on SPD film and on an innovative interlayer that will integrate UV, IR and hydrophobic barriers, the solution benefits from a new lamination process for enhanced reliability. Nuance V2 also comprises embedded electronics and a laminated touch panel developed in-house, for a more compact easy-to-retrofit solution.

Please enjoy Vision Systems' video on EDWs



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