VISION SYSTEMS PRESENTS ELECTRONICALLY DIMMABLE WINDOWS WITH ELECTROLUMINESCENT SYSTEMS

News / Business aviation, Events / Festivals, Manufacturer

On the strength of its expertise in shading systems, Vision Systems will present a wide range of the second-generation Electronically Dimmable Window (EDW), Nuance V2, smart interactive solutions including electroluminescent information, and high-end motorized shades. For all these solar protection solutions, Vision Systems North America is able to meet the rigorous requirements of the VVIP market in terms of fit and finish with a seamless transition of production from France to America.

As a competitive challenger in In Flight Entertainment providing bespoke solutions to the aeronautic market, Vision Systems will also exhibit wireless IFE systems dedicated to business aviation.

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Vision Systems' electronically dimmable solutions allow for a sleek, elegant design adapted to the VIP style of modern business jets. They enable passengers to change the tint of their window from clear to dark to regulate daylight, glare and heat entering in while preserving the view. They enhance visual, thermal and acoustic comfort, for a peaceful atmosphere.

Vision Systems' EDWs offer **many advantages over other systems**. Based on SPD (Suspended Particle Device) technology, they provide infinite variable shading from fully clear to an extremely dark state and**instant response time**. They automatically switch to their darkest possible state when unpowered,**keeping the interior cooler on the tarmac** and reducing 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 percent compared with motorized shades, and do not add weight in comparison to a window with a manual shade. Furthermore, they have no moving parts, reducing maintenance costs and downtime. They can be incorporated into **flat or curved surfaces**, use **plastic or composite glass** and can be designed in **several zones** independently dimmable (multizone versions).

The Nuance V2 new range of solutions offers **unprecedented optical quality** and comprises a laminated touch panel developed in-house and integrated electronics, to be more **compact and for easy retrofit**.

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 will showcase a **multizone** version of dimmable window, a **privacy solution** dimming from transparent to opaque white or dark to control both daylight and privacy, and a dimmable window displaying information thanks to an **electroluminescent** system.

The Nuance solution will also be presented in a divider, for adjustable level of privacy between classes.

Please enjoy Vision Systems' video on EDWs

Vision Systems' tailor-made motorized shades for one or two windows feature smooth or pleated fabrics, single or dual screens, light weight, acoustic insulation and a fine fit and finish. These long-life products comprise advanced motorization with brake, manual unlocking and anti-jamming devices. Another particularity of these solutions is the synchronization of the shades that

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reach the bottom all at the same time or by zone. Moreover, the electronics are integrated for easy installation and maintenance and they are ready for the eventual inclusion of a dimmable window.

Lastly, Vision Systems will exhibit its **cutting-edge wireless IFE system dedicated to business aviation**, offering simultaneous Wi-Fi connection for broadcast and HD-quality AVOD on PEDs including "DRM approved" streaming and **daily press**. Various VIP options come and enhance the passenger experience; the connectivity option provides internet access, email, video conferencing, and personal smartphone usage over VoIP. It gives the passengers the possibility to stay connected all the way from the office to the arrival terminal. Other options include cabin management, interactive moving map, or a switch on the tablet from the IFE media center to a Blu-Ray player connected to the box.

Different configurations are possible with **personal or company tablets**. For each customer, Vision Systems develops a **customized user-friendly interface and content**. Software content updates are rapidly downloadable by USB or on ground 4G connection.

A portable solution is also available for leasers.

Vision Systems' solutions are scalable and flexible as well as being easy to install, to retrofit and to maintain.

Headquartered near Lyon, France, with a production and sales unit in Florida, USA, and trade offices in Singapore, Dubai and Montreal, Vision Systems is a tier-one system supplier in the aeronautic, land transport and marine industries, designing and producing bespoke solutions for specific market segments in complex environments. The company’s genuine expertise in shading systems places it today as the world leader in this area and the development of customized entertainment & connectivity solutions allows it to rank as a competitive challenger in embedded systems.

Vision Systems combines complementary skills in electronics, mechanics and composite to provide ever more innovative solutions for cost reduction, heightened safety and improved comfort.

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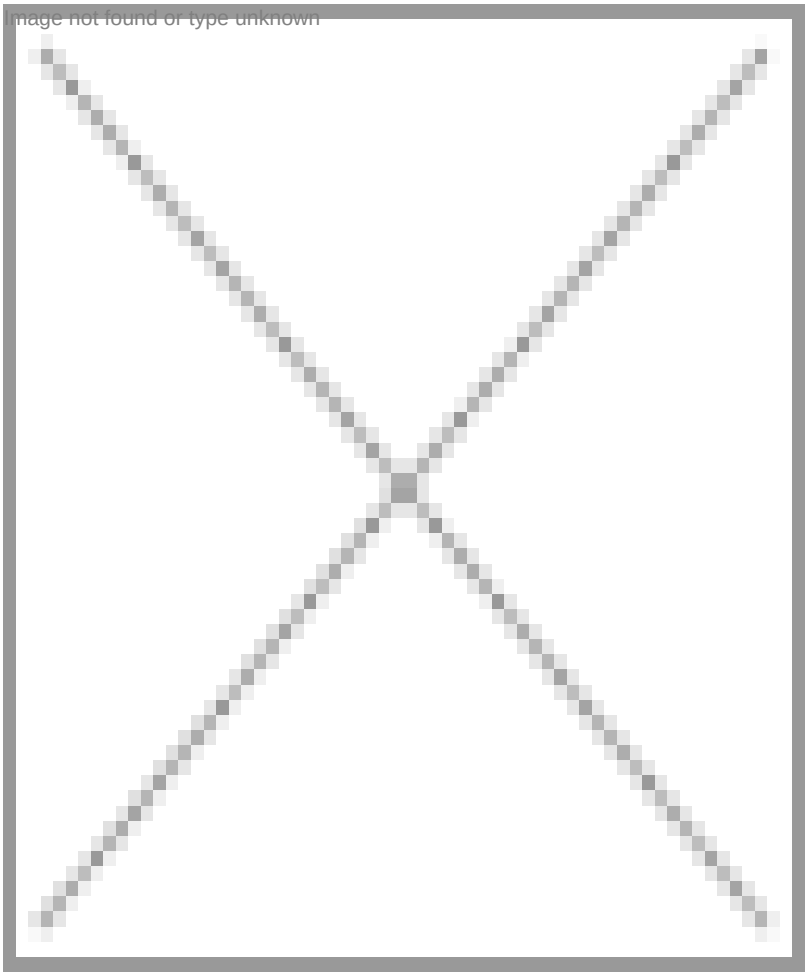

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