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## VISION SYSTEMS UNVEILS ITS NEW ELECTRONICALLY DIMMABLE WINDOW (EDW) SOLUTIONS AND A BRAND NEW CONCEPT OF EDW INTEGRATING TRANSPARENT INFORMATION DISPLAY!

AIRCRAFT INTERIORS EXPO, 5-7 APRIL 2016, HAMBURG, GERMANY  
HALL B2 BOOTH 2D28

As an architect of innovations offering tailored solutions to the aeronautic market, Vision Systems will showcase its **solar protection solutions and wireless IFE system dedicated to regional and high-end commercial airlines.**

Vision Systems' **SPD-based Electronically Dimmable Windows** significantly participate in enhancing the passengers' flying experience by improving visual and thermal comfort. When entering the aircraft, their sleek, elegant design, and their capacity to block heat and noise convey a peaceful, spacious atmosphere in a cooler and quieter cabin. The passengers can then regulate daylight, glare and heat entering the aircraft by dimming their window from clear to dark and to any level in between while enjoying the view, or set a dark mode if they wish to sleep.

Vision Systems' Electronically Dimmable Windows offer variable shading from fully clear to an extremely dark state (over 99.9% light blockage) and **instant response time**. They can be controlled with a touch panel directly on the window, with the flight attendant panel for cabin-wide master control from the crew, or automatically with integrated light sensors. They also contribute to a reduction of air conditioning consumption as **they default to their darkest possible state** when the aircraft is on the ground, maximizing heat rejection and keeping the interior cooler. These solutions block more than 99.9% of harmful UV light, and their fabrication involves **noise barriers** to keep the cabin quieter. Furthermore, they have **no moving parts** as the electronics is fully integrated, reducing maintenance costs and downtime. They can be incorporated into **flat or curved surfaces (2D, 3D), plastic or composite glass**. A 2.7mm curved lens composed of X-Lite composite glass will be exhibited at the show as well as a **bi-zone dimmable window**. Vision Systems' EDW range also includes a partition solution for complete privacy.

These solutions come as a whole to replace the entire inside window comprising the casing and the dust panel. The installation is limited to a simple mechanical operation which is also very advantageous for the **aftermarket**. Moreover, they can be combined with Vision Systems' motorized shades.

Vision Systems' Electronically Dimmable Windows are already installed in Dassault F5X (skylight), Epic E1000, Airbus Helicopters H175, RUAG's refurbished Falcon 900 and HondaJet HA-420. There are currently several new projects under way, especially on commercial aircrafts.

Vision Systems foresees EDWs in the **cockpit of tomorrow**, presented at the show, with the latest version of its **dimnable sun visor** integrating transparent photovoltaic cells into the polycarbonate, and an **add-on dimmable solution** covering the lateral cockpit windows with a system that enables a quick removal without tools in case of emergency.

The **new concept of EDW integrating transparent display** was developed to **enhance the value of the window seat**.

The solution combines a **dimnable system with a transparent video display** offering interactive moving map and travel services, all together integrated in the aircraft window. The window can be controlled by the passenger through a transparent touchscreen incorporated into the glazing, or by the crew through the flight attendant panel. The dimmable system is based on SPD-technology and the interactive display uses a transparent, flexible and thin color video screen. The benefit for the passengers is to regulate the light and heat, to interact with the moving map and to get more services, directly on the window. For the airline, the solution conveys a differentiating image and allows improved customer satisfaction while maximizing revenues. Vision Systems relies on its expertise in complete solutions of Electronically Dimmable Windows and IFE systems to offer a cutting edge interactive aircraft window that meets tomorrow's challenges in terms of passenger experience and airline's expectations.

Vision Systems' **wireless IFE solution** will also be displayed in two different versions; one dedicated to **regional aviation**, and another one dedicated to **executive aviation**. They include high audio & video quality content adapted to each type of passengers in order to provide a more enjoyable experience.

One single light and compact box provides outstanding functionalities such as **daily press, extensive tourist information, local advertising with discount vouchers** and **priority data flows for safety** videos and announcements putting the tablets on hold. And of course it offers movies and TV series, music, magazines and games.

Other options include broadcast or **connectivity** for internet access, email, video conferencing and VoIP, as well as remote diagnosis, software upgrade and audio & video content updates via a **ground platform**.

Different configurations are possible with **personal or company tablets**. For each customer, Vision Systems develops a **customized user-friendly interface and content**. Moreover, the airlines can provide Visions Systems' entertainment solution to their passengers either via a downloadable application running on all major operating systems or via web browsers.

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*Headquartered in France for more than 80 years, with a production unit in Florida, USA, and a trade office in Singapore, Vision Systems specializes in three activities: Aeronautics, Automotive and Marine.*

***Vision Systems Aeronautics** designs and produces innovative solutions for business jets, helicopters, regional and continental aircrafts: solar protection, IFEC, CMS, and composite structures.*

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

**Sales contact:**

**Vision Systems: Benoit Brioude, Sales Manager: +33 4 72 31 98 10 [bbrioude@visionsystems.fr](mailto:bbrioude@visionsystems.fr)**

**Vision Systems Asia: Thomas Lim, Regional Sales Director: +65 8876 1015 [thomas.lim@visionsystems-asia.com](mailto:thomas.lim@visionsystems-asia.com)**

**Vision Systems North America: Cyrille Laitier, Sales and Program Director: +1 321 265 5110 [claitier@visionsystems-na.com](mailto:claitier@visionsystems-na.com)**

**Press contact:**

**Alexandra Martin-Devaud, Communication Manager [amartindevaud@visionsystems.fr](mailto:amartindevaud@visionsystems.fr)**

**For further information about Vision Systems please visit our website at [www.vision-systems.fr](http://www.vision-systems.fr)**