



Architect of innovations

PRESS RELEASE – OCTOBER 27TH, 2015 - For immediate release

VISION SYSTEMS PRESENTS ITS LATEST ELECTRONICALLY DIMMABLE WINDOWS' INNOVATIONS AND VIP IFEC SYSTEM

NBAA – 17 TO 19 NOVEMBER, LAS VEGAS, USA – BOOTH C12545

Vision Systems pursues its innovative strategy and exhibits its new solutions: a **touchless-controlled Electronically Dimmable Window** and a **dimnable sun visor**. The company will also present the latest version of its **wireless IFE system on PEDs dedicated to business jets**.

Nuance Touchless is the world's first dimmable aircraft window controlled without any contact between the finger and the window. On the multizone solution featured at NBAA, the visitors can set strips from the clear to the dark position, one after the other and from the top down like a Venetian blind, just by approaching their hand near the window and moving it upward or downward, and sideward to set the desired level of opacity. The aim is to give the possibility to the passenger who is seated in the aisle to control the window from their seat without disturbing the passenger at the window seat.

Opti-Visor is also one of Vision Systems' new solutions. The version which will be exhibited at the show is a dimmable sun visor for the cockpit featuring 3 buttons directly on the polycarbonate: +, - and Auto, meaning that the pilot can choose either to have an automated management (with an integrated light sensor) or can control the tint directly by simply pushing the + or - buttons. Opti-Visor operates without any wiring thanks to an integrated battery that is rechargeable. Furthermore, it is easily removable. Another version has been developed, a self-powered dimmable sun visor, which includes transparent photovoltaic cells integrated into the glazing.

Vision Systems is a world leader in **Electronically Dimmable Windows** that provide the passengers with improved visual and thermal comfort, protecting them from the sun while preserving the view. They offer a sleek, elegant design adapted to the VIP style of business aviation and convey a peaceful atmosphere. Based on SPD technology (Suspended Particle Device), they are instantly dimmable from clear to dark to reduce light, glare and heat entering the aircraft. They also contribute to keep the interior cooler as they block up to 95% of incoming heat, do not produce heat when powered, and are at their darkest possible state when the aircraft is on the ground. These solutions also block more than 99.9% of UV light which protects the interior from fading, and their multi-layer fabrication allows noise reduction to keep the cabin quieter. Furthermore, these systems have no moving parts as the electronics is fully integrated, which reduces maintenance costs and downtime.

Vision Systems' EDWs can be controlled from a touch panel directly on the window, a centralized control panel or a wireless tablet. Besides, the EDW system interfaces with any Cabin Management System.

Vision Systems' EDWs are now available in multizone and in different tints to tailor responses to the requirements of the customers, and also include a **partition solution** as a design element or for complete privacy.

Among the EDWs presented at the show, the most recent version of **the self-powered Electronically Dimmable Window, Energia**, will be featured. This wireless solution is totally independent from the aircraft electrical system. It produces its own energy from the sun thanks to transparent photovoltaic cells integrated into the glazing which allows energy storage in a battery to provide the dimmable window with electricity. The amount of energy harvested being superior to the need in electricity of the dimmable window, the solution can include a map light or a USB plug to recharge a mobile phone.

Vision Systems will also exhibit its cutting-edge wireless IFE system on PEDs, Visi-VIP, with Wi-Fi AVOD including "DRM approved" streaming, and various VIP options to enhance passenger satisfaction and comfort. The connectivity option provides internet access, email, video conferencing, and personal smartphone usage over VoIP with guaranteed voice quality. It offers 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. The solution is customizable both in terms of functionalities and user interface design. Different configurations are possible with one single box and multiple screens: motorized displays up to 65", up to 80 tablets, or small screens with full HD. Software upgrade and audio & video content are rapidly downloadable by USB or on ground 3G/4G connection. Innovative tablet holders will also be presented at the show.

Headquartered near Lyon, 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, 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.

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