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VISION SYSTEMS' ELECTRONICALLY DIMMABLE WINDOWS DISPLAYED AT PPG BOOTH

**NBAA-BACE, October 10-12, 2017, Las Vegas, Nevada, USA
North Hall - N5109**

Following PPG's and Vision Systems' recent announcement to develop aircraft window shading solutions, PPG (NYSE:PPG) will showcase two of Vision Systems' second-generation Electronically Dimmable Windows (EDWs) at the National Business Aviation Association Business Aviation Convention & Exhibition (NBAA-BACE). The first one is Nuance V2 Dark, already exhibited at EAA AirVenture Oshkosh 2017 last July, and the second one is Nuance V2 Ultra Clear, a new solution responding to the specific demand for shading systems that allow for brighter cabin interiors.

PPG and Vision Systems are working together to develop new applications utilizing Vision Systems' electronically dimmable window shading solutions for aircraft. Visitors to the PPG booth at NBAA-BACE can see the technology that is the focus of the collaboration, according to Brent Wright, PPG global business director, aerospace transparencies.

"Our customers will have the opportunity to talk with us and Vision Systems representatives about the possibilities that we bring for innovative window shading solutions by combining our expertise," Wright said.

Vision Systems' electronically dimmable solutions offer a sleek, elegant design adapted to the VIP style of business aviation. They 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 or blocking outside light. They also 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 as the **electronics are fully integrated**, reducing maintenance costs and downtime. They can be incorporated into **flat or curved surfaces** (2D, 3D), and use **plastic or composite glass**. 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.

With **Nuance V2** solutions, Vision Systems continues to widen the gap with competing products; the new systems provide unprecedented optical quality, with **haze as low as 2.5 percent and clarity close to 100 percent**. Based on an innovative interlayer that will integrate UV, IR and hydrophobic barriers, the solutions benefit from a new lamination process for enhanced reliability. They also comprise embedded electronics and a laminated touch panel developed in-house, to be more compact and for easy retrofit.

[Please enjoy Vision Systems' video on EDWs](#)



Headquartered near Lyon, France, with a production and sales unit in Florida, USA, and a trade office in Singapore and Dubai, 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 solar protection 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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