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Visions Systems Unveils New Dimmable Windows

by Samantha Cartaino - May 19, 2017, 12:33 PM



The Nuance V2 electronically dimmable windows allow passengers and crew to easily adjust light conditions in the cabin. [Photo: Vision Systems]

At this year's EBACE show, Vision Systems (Booth Y118) is displaying its second-generation Nuance V2 electronically dimmable window (EDW). The French company is also showcasing its interactive Acti-Vision Window for business aircraft.

The Nuance V2 is based on suspended particle device (SPD) film and UV, IR and hydrophobic integrated barriers. The EDW is available as a retrofit option, and all its embedded electronics and laminate touch panel have been developed in-house by Vision Systems. It also offers optical quality with haze as low as 2.5 percent and clarity as high as 100 percent. To help achieve this, Vision Systems uses an automated lamination process.

The Acti-Vision Window is interactive, with a touchscreen that uses the window surface as a display, allowing passengers to view on-board services, maps, business information, daily news and meal and drink orders right on the window. Flight attendants can push important announcements or information from the cabin systems control panel to a specific window. Passengers can adjust the Acti-Vision Window so it is clear or dark for contrast and readability.

While switched to their darkest state, these windows keep the interior of the aircraft cool on the tarmac and in the air, reducing the use of air conditioning. The EDWs block harmful UV light and also offer a 30 percent weight reduction compared to motorized shades. The windows can be made of plastic or composite glass, and can be configured as flat or curved surfaces.

Vision Systems is also displaying its wireless IFE systems designed for business jets. The system features an external or integrated WiFi access point that provides connection for broadcast and audio/video on demand (AVOD) and personal electronic devices (PEDs) such as DRM-approved streaming and daily press. The company customizes the interface and content of each IFE system according to the customer's preferences. Audio and video content as well as software upgrades are available for download by USB or 3G/4G connection. While the IFE systems are available for retrofit, Vision Systems offers installation, maintenance and content updates for the product.

Though based in France, Vision Systems has a production and sales unit in Florida as well as trade offices in Singapore and Dubai. The company develops customized entertainment and connectivity solutions that incorporate solar protection. Other products on display in Geneva this week include E motorized shades and jettisonable helicopter windows with composite frames.