

Fifty Sky Shades - November 2016



VISION SYSTEMS EXHIBITS ELECTRONICALLY DIMMABLE WINDOWS AT MEBAA SHOW

As a world leader in solar protection systems Vision Systems will present high-end motorized shades and Electronically Dimmable Windows (EDWs) dedicated to business aviation.

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 and the integrated electronics allow easy installation and maintenance. Another particularity of these solutions is the synchronization of the shades, which reach the bottom all at the same time or by zone. Moreover, they are ready for the eventual integration of a dimmable window.

Vision Systems' electronically dimmable solutions enable passengers to tune the tint of their window from clear to dark in order to regulate daylight, glare and heat entering in, while preserving the view. They enhance visual, thermal and acoustic comfort for a greater wellness atmosphere.

Vision Systems' EDWs are unique on the market today and provide **many advantages over other systems**. Based on SPD technology (Suspended Particle Device), these EDWs allow infinite variable shading from fully clear to an extremely dark state (over 99.9% light blockage) and **instant response time**. They contribute to a reduction of air conditioning consumption and **automatically switch to their darkest possible state when unpowered**, maximizing heat rejection and keeping the interior cooler on the apron. These solutions block harmful UV light, and IR with an additional integrated anti-IR film, and their fabrication involves **noise barriers** to keep the interior quieter.

Vision Systems' EDWs offer many other benefits. They deliver a **weight reduction** of about 30% 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), use **plastic, glass or composite glass**, and provide an unprecedented optical quality. All these solutions can come as a whole to replace the entire window. The installation is often limited to a simple mechanical operation, which is very advantageous for the **aftermarket**. Besides, all these solutions can interface with any Cabin Management System.

Vision Systems' dimmable solution range also includes privacy and partition solutions, one of which will be presented at the show; on the strength of its composite expertise, the company developed a dimmable window consisting of a **composite frame laminated into a mirror coated glazing**. The beautiful finish and very high-end design of this new solution is particularly well adapted to VIP aviation.

Some of Vision Systems' **customer references in aeronautics** include: Dassault, Epic, Airbus Helicopters, RUAG, HondaJet, BCA, Sabena Technics, ATR, SuperJet International, La Compagnie, Embraer, Boeing...

