

DISPLAY SOLUTIONS

Because the view matters

NASA Selects Display Solutions for Upgrade of Ames Research Neuro-Engineering Lab

Display Solutions, Inc. of Hudson, MA, was chosen to perform an upgrade of the NASA Ames Research Neuro-Engineering Lab Visual System.

The Neuro-Engineering Lab is a NASA test and evaluation facility that is used to support the development, evaluation and demonstration of aircraft modeling, adaptive control and flight management technologies. The visual system upgrade needed to be compatible with the existing rear-projection screen site infrastructure and support geometry correction, edge-blending, color correction and rapid re-configurability. The system also had to be compatible with the Open Scene Graph API, running on Linux legacy image generators.

NASA selected a Display Solutions design consisting of three SXGA+ single-chip DLP projectors and a Mersive Video Processor and SOL Server. The Display Solutions theater design improved the existing edge-blend overlap of the images by increasing the blend zones by 30 percent. The theater design also eliminated the existing mirrors and simplified the setup and maintainability of the system. This also allowed the projectors to be located above the center axis of the screen where they minimize hot-spotting, a common problem in rear projection systems. The new location also means the projectors are less susceptible to accidental movement in an area also used for storage.



Display Solutions, Ken Boyd with Mersive personnel, performed an on-site evaluation in order to produce a visual system design that not only met the NASA goals but also exceeded them in critical image areas.

NASA Ames Research Neuro-Engineering Lab

The facility serves as a research test-bed for new adaptive control systems developed by staff, researchers and students. The facility has a long history of research support for a variety of NASA, commercial and military projects and has hosted guest researchers.

About Display Solutions Inc

Display Solutions, Inc is a privately owned small business with less than 100 employees, incorporated in the state of Massachusetts. We provide products and services to clients using state of the art multimedia video display technology for information display, education, entertainment and training. Display Solutions information can be obtained from www.displaysolution.com or call 978-567-8770, or e-mail info@displaysolution.com