

# *DISPLAY SOLUTIONS*

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## *Because the view matters*

**Display Solutions, Inc. of Hudson, MA**, has completed an upgrade of The Boeing Company's Philadelphia Rotorcraft Flight Simulation Laboratory in Ridley Park, PA.

The Rotorcraft Flight Simulation Laboratory is a test and evaluation facility that requires multi-channel projected images to be compatible with ANVIS III NVG and rotation rates of 50 degrees per second without smear. Since this is a research simulation facility, the visual system design and components have to be re-configurable in order to display the extreme maneuvers associated with rotorcraft development.

Boeing selected a visual system theater design from Display Solutions. The ORION Projector with both the ORION Green Option for NVG and the ORION Red Option for rapid moving images without smear was the key component of the design. The low-latency video processor from 3d-Perceptions was also incorporated into the design. The theater design by Display Solutions had to fit with the existing CH-47 Chinook cab and mounting gantry's, the 220 degrees HFOV by 90 degrees VFOV spherical screen and provide chin window images.

Part of the upgrade statement of work included demonstrations for Boeing laboratory and end-user personnel with the new ORION projectors. The visual systems engineer for the laboratory stated that the demonstrations were an essential part of the upgrade considering the large number of analysis performed and their effect on the moving scenes displayed.

Display Solutions, working with laboratory personnel, integrated the existing spherical screen, image generator, and cockpit, with new projectors, mounting hardware and video processing within the required timeframe.

### **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](http://www.displaysolution.com) or call 978-567-8770, or e-mail [info@displaysolution.com](mailto:info@displaysolution.com)

