

Solution Story:

Aircraft Carrier Habitability Upgrades

Another quality project by The iSoft Team

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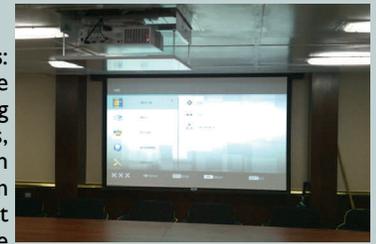
Highlights

- Audio/Visual Installation in 4 wardroom spaces to support off duty entertainment as well as training and ceremonies.
- Hanger bay audio systems to enhance crew morale while working in the spaces, during "movie night" as well as supporting large ceremonies and embarked new media.
- Audio-visual upgrades in XO's conference room and lounge for staff presentations, training and entertainment,
- Foc'sle audio systems for smaller ceremonies and religious services .
- Ready room audio visual upgrades to supporting, pre-flight briefings and post flight debriefs.
- Upgrades in training rooms to support professional development of ship's force utilizing interactive and video conferencing technology.

iSoft Solutions was approached to design and install audio visual upgrades onboard multiple USN aircraft carriers as part of a major Naval Surface Warfare Center habitability upgrade initiative. In response to significant increases in CVN operational tempo, the goal is to improve moral through enhanced audio-visual systems for operational briefings, crew entertainment, training and ceremonies. Systems upgrades were implemented in the wardrooms, CPO mess, ready rooms, conference rooms, foc'sle and hanger bay. Designs for the USS George H. W. Bush (CVN-77) have become the template to follow on installations on the USS Harry S. Truman (CVN-75), the USS Theodore Roosevelt (CVN-71) and the USS Dwight D. Eisenhower (CVN-69).

Wardrooms, XO Conference Rooms and Lounge Upgrades:

Habitability general contractors stripped the Wardroom and Conference Rooms down to bare metal and modernized the entire space. Working with a clean slate, iSoft worked in tandem with the space designers, cabinet makers, electricians and sheet metal fabricators to develop an audio visual system fully integrated into the space rather than a system installed as an after thought. The concept was to create systems that would be at home in a business board room and yet still stand up to the



Mounted Projector and Screen

riggers of a shipboard environment. The systems are designed to be used a single multi-media room or broken down into three independent rooms that can support separate presentations and/or training sessions within each room.



USS George H.W. Bush—Wardroom #3

Hanger Bay and Foc'sle Audio Systems: iSoft installed a Public Address and Music system in the Hangar Bay and Foc'sle spaces to support ceremonies, embarked media presentations, crew "Movie Nights", religious services and provide background music to enhance crew morale while working in the Hangar Bay. The hanger bay audio system covers an height of 30' and consists of over 28 JBL 12' box speakers covering an area of 95' x 200' with overhead speakers mounted in the overhead, all driven by QSC dual channel 70-volt amplifiers and JBL



Hangar Bay Audio System



Foc'sle Audio System

wall mounted speakers. The acoustical challenges presented by the foc'sle were overcome through the use of line array column loudspeakers, a Solus-8 digital signal processor and QSC amplifier combined to provide consistent, distortion free coverage for voice re-enforcement and the playing of live or recorded music.

Training Rooms iSoft designed and installed audiovisual equipment to modernize the ship's 6 Learning Media Resource and Distance Learning Center training rooms. The rooms design is focused on large flat panels displays with a Smart interactive overlay in the front of the room flanked by smaller monitors on swivel mounts on both sides of the room. iSoft's designers engineered a audio system capable of overcoming a wide challenging audio conditions ranging from a relatively low noise environment while in port to the very high ambient environment created from large fans running and the pounding of aircraft on the flight deck during flight operations. In addition, a video conferencing system was installed in the two largest training rooms to allow the ship's training department to connect the two rooms and use one single subject matter expert to train crewmembers in both rooms simultaneously.



Training Room #2



Wardroom #3—Customized Crestron Control Touch Panel

