



Case Study: Recreation

PEORIA RIVERFRONT MUSEUM

Peoria Riverfront Museum Installs a World-Class AV Solution in a nearly 80,000 Square Foot Facility with Tesira®

The Peoria Riverfront Museum is a collaborative effort of eight organizations with nearly 500 years of combined experience educating, entertaining and supporting culture in the Peoria area.

For over 10 years, these entities worked tirelessly to bring to life a one-of-a-kind experience for the people of central Illinois and beyond. Their objectives were to provide interdisciplinary learning opportunities for people of all ages and create a diverse, cultural campus in the heartland, and positively impact the region's economy.

The Museum's mission is to inspire lifelong learning for all - connecting art, history, science and achievement through collections, exhibitions and programs.

THE CHALLENGE

Biamp Systems' integration partner, Zdi, Inc. (Zeller Digital Innovations), won the original contract bid as well as the design/build contracts for AV installations and project management of the Museum's \$60 million, nearly 80,000 square foot facility expansion. Broken up into distinct phases, the project included design and installation of an AV solution for the Giant Screen Theater and Planetarium, plus a museum-wide paging system and an outdoor audio system (special-use spaces project).



PRM Multimedia Donor Wall

THE SOLUTION

Jim Richerson, President and CEO of the Peoria Riverfront Museum, wanted all four phases to work together as one integrated AV multi-media system, thus avoiding having four separate technology silos in the building. Though all four systems work independently of one another, with the integration of Biamp's AudiaFLEX and Tesira products, every system in the building is controlled easily from a common user interface.

The use of Audia® was part of the original design by PSA Dewberry, but once all the Museum's needs were identified, it became clear that an additional system would be necessary to allow for the desired level of flexibility and scalability they needed. Zdi installed a CobraNet® network, a regular AV network, and an AVB network across the facility. Where the original construction contract had called for the installation of Audia, Zdi configured the CobraNet network to pass through the Tesira servers to communicate with the Audia portion of the network. This vast audio network allowed them to push audio from any starting point to any end point throughout the facility.

SYSTEM SPECIFICS

COMPONENTS:

Audia:

5 AudiaFLEX, 21 IP-2 cards, 14 OP-2e cards, 2 VoIP-2 cards, 2 AEC-2HD cards, 2 Networked Paging Station-1, 1 Logic Box, 2 AudiaEXPI/O-2

Tesira:

1 SERVER, 2 SERVER-IO AVB, 9 DSP-2 cards, 1 EX-MOD, 2 EOC-4 cards, 1 EIOC-4 card, 18 SIC-4 cards, 6 SOC-4 cards

The use of Tesira products in the Peoria Riverfront Museum installation proved to be critical to their ability to support all routing of audio throughout the facility. The Tesira SERVER-IO allows for up to 48 channels of audio I/O, while the EX-MOD greatly expands the available channels of audio I/O for the Museum. This more than meets their needs now and as they continue to expand.



The Peoria Riverfront Museum and the riverfront promenade

INTEGRATED SOLUTION ENABLES LONG-TERM SUCCESS

A primary goal of the Museum expansion and AV solution was to make the Peoria Riverfront Museum a world-class facility by creating dynamic spaces with audio (and eventually video) inside and outside of the facility that would be accessible throughout the museum. For example, the Giant Screen Theater was built to accommodate groups of up to 200 people who can rent the space for lectures, presentations or video conferencing. Outside of the Theater, the audio is configured to go anywhere including the outdoor patio, which has views of the river.

“We specifically selected Biamp products because of the quality and flexibility they offer,” stated Jay McArdle, Lead Engineer at Zdi. “We specifically added Tesira to the original Audia design because it offered the highest channel counts, and the AVB network enabled all the products, regardless of the media type, to work as an integrated solution.”

Long-term, the Museum intends to present music, movies and concerts in their outdoor spaces, using the AV solutions created by Zdi, with the existing Biamp product infrastructure.



ABOUT BIAMP SYSTEMS

Biamp Systems is a leading provider of innovative, networked media systems that power the world's most sophisticated audio/video installations. The company is recognized worldwide for delivering high-quality products and backing each product with a commitment to exceptional customer service.

The award-winning Biamp product suite includes the Tesira® media system for digital audio networking, Audia® Digital Audio Platform, Nexia® digital signal processors, Sona™ AEC algorithm and Vocia® Networked Public Address and Voice Evacuation System. Each has its own specific feature set that can be customized and integrated in a wide range of applications, including corporate boardrooms, conference centers, performing arts venues, courtrooms, hospitals, transportation hubs, campuses and multi-building facilities.

Founded in 1976, Biamp is headquartered in Beaverton, Oregon, USA, with additional engineering operations in Brisbane, Australia. For more information on Biamp, please visit www.biamp.com.