

ISP Technologies Delivers Premier Audio Solution for US Naval Academy



January 10, 2010 — Waterford, MI — ISP Technologies, a leading manufacturer of premier audio systems, has provided its industry-leading audio solution for Alumni Hall, the multi-purpose arena and assembly hall of the U.S. Naval Academy in Annapolis, Maryland. The ISP solution, based on HDL 4210 line arrays, delivers the intelligibility, even coverage, and high quality sound required to support more than 300 events each year at the facility.

When ISP Technologies offered a demonstration of the new HDL4210™ Line Array System at Towson University, which is located close to the US Naval Academy, a representative from the Naval Academy also attended. Being impressed by the performance level of the HDL True 4-Way™ design, the Naval Academy decided to look at the option of installing a new HDL4210 system in Alumni Hall in Annapolis, MD. Alumni Hall, an indoor stadium completed in 1991, seats 5,710 and serves many functions. Not only is it the main assembly hall for the Brigade of Midshipmen, it is also used for athletic contests and is the home for both the men's and women's basketball teams. The Hall is also used for lectures, assemblies, theatrical productions, concerts, and is the home of the Bob Hope Performing Arts Center. "Over the span of a few years we were able to hear many different systems both here in our own building during concerts and at other venues in the area," said Dic Gleason, Auditorium Operator at Alumni Hall. "Coverage, gain before feedback, and vocal intelligibility were our biggest concerns. Once we heard the ISP line array, we knew we had found our solution. We are very happy with the way the HDL 4210 speaker system has been able to handle whatever we have thrown at it, including the capability to really rock the house when we need to. The system has amazed everyone that has had the chance to hear it."



ISP Technologies worked with AVI/SPL, a leader in the pro audio market and recognized as the largest global integrator for audio video systems and services, to deliver the Alumni Hall solution. The original design aspects were done by Tim Heneveld at the AVI/SPL Grand Haven, Michigan office with the support of ISP Technologies. "We were extremely impressed with the quality and fidelity of ISP Technologies' HDL4210 line arrays paired with their XMAX212 subs at the US Naval Academy's Alumni Hall," said Jeff Vogt, Design Engineer at AVI/SPL. "Furthermore, ISP proved an invaluable partner in the timely installation and commissioning of the sound system, as their staff went beyond our expectations by supporting our role as a design/build integrator. We look forward to working with ISP on many more projects to come."

The system utilized the ISP High Definition Series™ 4210 Line Array boxes featuring the only True 4-Way™ line array cabinets on the market. Eight hangs of the HDL 4210's, utilizing both 6 and 12 degree boxes for optimum dispersion, along with the XMAX™ 212 folded horn subwoofers, made up the system to cover the space in three different configurations. These include: The Bob Hope Theater configuration with a Left, Center, Right mode at the end of the arena; Lecture configuration providing coverage of 3/4 of the total arena; and a Full configuration providing a full 360 degree coverage typically used for basketball and full arena events.

The ISP cabinets are also "green" as the patented ISP Technologies DCAT™ power amplifier technology pulls far less current than most competitors. For example, the True 4-Way Line Array™ High Definition 4212 boxes, at maximum power, will pull an average of 10 amps off the line and at 1/3 power will pull about 3 amps off the line. In comparison, some of our competitors comparable boxes at 1/3 power, will pull 14 amps off the line and at full power, about 25 amps off the line. The XMAX subwoofers also, with their higher efficiency design of folded horn loaded cabinets, are very "green." ISP Technologies also manufactures their Pro Audio gear in the United States, with most of the production done in Michigan.

All of these factors went into the decision to select ISP Technologies gear for this application. The performance of the HDL 4210 Line Array boxes is phenomenal and the HDL series from ISP Technologies offers the only true 4-way design which splits the mid-range frequency band into a low-mid and high-mid. The true 4-way design ensures ample headroom in each band and eliminates the typical intermodulation distortion that occurs with a two or three way line array system. The end

result is stunning clarity and definition with increased headroom in this critical frequency band. Add to this the fact that the HDL4210 is a powered cabinet with 4 separate channels of power amplification designed to optimize system performance and you have a system exceeding the capabilities of any other Line Array offering.

"ISP understands that the basic foundation of great live sound is fidelity. Delivering extremely high performance live sound with intelligibility, clarity, and accurate uniform response at every seat is the major goal of ISP Technologies," said ISP CEO James "Buck" Waller. "And that is what we brought to the USNA."

For more information on the ISP Technologies Line Array Systems, or any ISP Pro Audio Gear, contact sales@isptechnologies.com, or call 248-673-7790. For more information on AVI/SPL visit www.avispl.com.

