



ESCONDIDO, Calif., --- Southern California Sound Image Inc. (<http://www.sound-image.com/>), a designer of advanced audio-video systems for stadiums, resorts, casinos, hotels, theme parks, corporations, churches and museums, today announced completion of the new audio-video system at Shadow Mountain Community Church, installing the upgrade project in just three weeks.

Shadow Mountain is a 2,000-seat community worship center featuring contemporary live music on Saturday nights, and a 200-member choir with a 35-piece orchestra on Sunday mornings. With a variety of music genres, Shadow Mountain's Technical Director, J.B. Bowling said, "We used Sound Image because of their expertise in versatile, large-scale audio-video system installations. We wanted a system capable of handling our live bands and choir, two totally different styles of music, while covering the almost 180 degrees of seating area." Working with Bowling, noted San Diego audio system consultant Vance Breshears from Sound Technology Consultants designed and specified a proprietary cross-matrix EAW audio system.

Sound Image installed EAW AX 344 loudspeaker boxes for the three clusters of 8 boxes forming the LCR system, powered by QSC amplifiers and processed by Peavey's NION system processors. Twenty-two EAW JF80's were used for under-balcony delays and front fills. Eight AX122 subwoofers were installed in the soffit behind the clusters, with the balance ground-stacked in front of the stage.

One of the project's biggest challenges was the design and fast-track manufacture of the custom rigging hardware. Sound Image AutoCAD design specialists were asked to build three-dimensional models of the loudspeaker clusters. The designs were used to develop the rigging bumper bar and hardware. Sound Image utilized Structural Engineer Stedman Dyson to validate the design of the rigging hardware. Actual rigging hardware welds were magna-fluxed and professionally certified. "Through the years, Sound Image has safely suspended thousands of pounds of devices over audience's heads. We simply do not take chances with rigging hardware and safety," said Dave Paviol, project manager for Sound Image.

Brand new Mystery floor boxes were integrated into the existing performance platform, all with custom-designed and engineered insert panels. Sound Image is known for being a turn-key, in-house manufacturer of parts used in its custom installations. This typically includes milling and engraving of custom panels and millwork.

The new audio system includes a full-board Yamaha PM1D, offering all digital processing, intuitive operation and total recall functionality. The advanced system features 96 channels of inputs installed at the stage allowing for versatile configurations without a patching nightmare. Several Bittree patch-bays were installed



at Front of House, Stage, Equipment Rack and Broadcast Recording Studios with maximum flexibility in mind. The on-stage performers received a personal monitor Aviom system, with a total of eight sub-mixes to choose from each control station generated from the Yamaha PM1D.

Shadow Mountain also is known for live radio and television broadcasts that take place from its main sanctuary each Sunday. Eric Seaberg from Turning Point Ministries played a major role in designing and resolving the tie-line and signal distribution issues with Sound Image and STC. The installation added adequate extra tie-lines to the sanctuary. The microphone split system is passive between the broadcast studios and front of house, and will remain that way until the next phase of development when it is expected a digital remote-controllable pre-amp system will be designed and installed.

One of the most challenging aspects of the installation, according to Sound Image specialists, was the integration between the existing broadcast single-phase tech power system and the newly installed tech three-phase power system. The overall power requirements of the newly upgraded audio system far exceeded the facility's existing power capacity. Mark Sticklemaier of LVH Entertainment was contracted to upgrade the existing power system. Several changes were made to the existing grounding system by installing and connecting a proper ground rod to the ground buss on the secondary of the new isolation transformer in the amp room and assuring that all grounds were isolated from the chassis ground throughout the system with separate ground wire. Before it was grounded, the system was not exactly quiet and free of 60 Hz hum!

Overall the audio system installation went in without a hitch, said Sound Image. They continued, "It is never easy to retrofit a system into an existing facility. There is always a lack of good conduit infrastructure and crawl spaces are limited."

"There was an immediate and apparent difference when we turned on the new system for the first time. The sound is much smoother now and people can actually hear the choir and orchestra," added Bowling. "I have not had any more complaints and I am now focusing on mixing instead of coping with the audio system."

About Sound Image

Southern California Sound Image, a world-class designer of advanced audio-video systems for stadiums, resorts, casinos, hotels, theme parks, corporations, churches and museums, celebrates over 36 years of bringing state-of-the-art communication solutions to businesses, homes and concert venues. For more information, please visit <http://www.sound-image.com> or call **760-737-3900**.