

# Nevada Home Las Vegas, Nevada

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The definition of a perfect home is different for everyone, and based on whatever is satisfies a desired lifestyle. For a family living just outside Las Vegas, NV, entertaining was a high priority; parties were hosted for business associates, friends and family every other week. With three teenage daughters, encouraging them to entertain at home was also a motivator.

“This was just an incredible job from beginning to end,” says Leon Kermani, President of Henderson, NV-based Big Boss Productions, who handled all the audio, video and home automation systems.

“The house was 10,000 square feet to begin with, and then the homeowner added another 6,600 square feet that included an atrium with a swimming pool, spa, and motorized glass roof that’s very similar to what you’d have in a stadium.”

**Crestron controls audio, video, lighting, pool/spa effects, sliding roof, security, heating/air conditioning, as well as video, RGB and audio distribution, amplification and surround sound processing throughout this 16,600 square foot home.**

The most impressive feature of the atrium is a 6,000 ANSI lumen projection system that shows HD and computer images on a 9' x 16' motorized screen that drops down over the swimming pool. “We had to integrate the pool and projection systems to make sure that the fountain effects turn off whenever the



screen is down,” Kermani explains. The atrium also includes a distributed audio system using a combination of ceiling and flush-mount loudspeakers and subwoofers, including waterproof speakers near the pool.

Kermani chose Crestron to control audio, video, lighting, pool/spa effects, sliding roof, security, heating/air conditioning, as well as video, RGB and audio distribution, amplification and surround sound processing throughout the home.

With a system this complex, reliability can become a major issue. “We could have done this with a number of suppliers,” Kermani says, “but the reality is that we would have had to use a number of different manufacturers’ components as well, and you definitely degrade reliability when you do that. Crestron was the logical choice, because they supply such a vast amount of gear, and unlike the others, they do their own research, development and manufacturing.

“Part of the reason Crestron gear is so reliable is that it’s not built on someone else’s platform, as other systems are,” he adds. “You’re not a slave to Linux, for example. You don’t have to worry about someone deciding to make a significant change to the operating system that could leave you in the lurch. You don’t have to reconcile a whole bunch of different manufacturers’ equipment speaking different languages back to your control system. Crestron keeps all the major components under its own direct control, and that’s a big advantage.”



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In addition to the atrium, this impressive home has four more areas where significant audio and video systems were added. There's a media/game room with a 65" plasma display and 7.1 surround sound provided by a Crestron C2N-DAP8 processor, with video, audio and other functions controlled by both a TPS-4L in-wall touchscreen and a TPMC-8X wireless touchpanel.

The media room also houses the equipment racks with the whole house audio, video and automation systems. Sources include a dedicated rack mount PC, Apple TV for on-demand HD movies, TV shows and music, two cable boxes, DirecTV's commercial satellite service, a Blu-ray player and XM/FM radio. "We have two video distribution systems. One switches component video inputs using a Crestron CNX-PVID, and the other handles VGA using Crestron QM-series commercial gear." Setting up the switching in this way allows Big Boss Productions to route computer graphics as well as TV and movies to any or all of the home's displays. A 65" flat-panel and 7.1 surround sound system were added to the family room, with user control provided by a TPMC-8X touchpanel.

A bar area off the atrium includes dual displays—a 65" plasma and 42" LCD—plus a distributed sound system. There is a TPS-4L touchpanel in the wall, while a MacBook Pro on the bar runs Crestron XPanel, from which the homeowner can operate the video, audio, projection, pool and lighting effects in the atrium, as well as the home automation functions that are also accessible from all the TPMC-8Xs.

Finally, there's a beautiful wine cellar in the basement with two 46" LCD displays and distributed audio, with control provided by a wireless handheld TPMC-4XG and in-wall TPS-4L.

The audio system includes DSP settings for DJs, who set up in the atrium for numerous parties. "Normally a DJ will bring his own sources and mixing console, then give us an audio output via an XLR or 1/4" connection. I've got a button on the touchpanel that sets all the gains, limiters, feedback controls, noise reduction and so on, to make sure that when he pipes into the whole house audio system they get the best possible results." Big Boss also included a Crestron QM-WMC computer interface, so that DJs can display computer graphics on the projector and any of the flat-panel monitors throughout the house. A commercial-grade wireless mic system routes into the whole house audio for announcements and speeches.

With such a sophisticated system, levels of control can become an issue. We embedded commands just for the homeowner, accessible via his fingerprint identification on the TPMC-8X touchpanels," Kermani explains. "Powerful menu options let him switch audio and video independently, to set up any sort of scenario he wants. Everybody else gets an ultra-simplified set of screens that control a much more limited range of operations."

The result of all this hard work is an extremely flexible and impressive home automation and entertainment system. "It's unique," says Kermani. "I haven't seen anyone who has done so well in bridging the gap between the commercial and residential audio and video worlds."

