

DigitalMedia™ for the Digital Home

With the promise of a high speed fibre network rollout in Australia, and the increase of online audio and video content, Sydney integrator Len Wallis Audio delivered a truly digital home using Crestron DigitalMedia™ (DM) fibre optic distribution.



“Future proof was the main focus of the infrastructure and equipment configuration” says Peter Greentree, Len Wallis Audio custom system sales and design. “The client requested that where possible equipment remain in a single location and be distributed. After the Crestron fibre optic backbone was in place, we consulted with the client to work out the sources to be distributed. We came to a conclusion that a Crestron 8x8 Digital media system would do the job (but) it was at this point that a decision was made to proceed with a 16x16 DM for future expansion.”

This project uses the Crestron DM fibre network to distribute video, control and ethernet around the house, providing distribution of HDMI signals from a variety of sources to multiple displays. Most importantly, DM allows multiple users to view and control sources at the same time with no dropouts or HDCP issues. The system is based around a Crestron DM-MD16X16 matrix which delivers full high definition content to each room through Crestron multi-mode fibre cable where a Crestron Room Controller (up to 300 mtrs cable length) mounted behind the display on the wall decodes the signal to provide HDMI, ethernet and control signals. The twelve zones of stereo audio are done using two Crestron CNX-BIPAD-8 audio processors and a Creston CNAMPXI-12X60

12-channel amplifier. Distributed audio sources include two Crestron CEN-iSERVER music servers, two Crestron CEN-IDOC-V iPod docks located in the rooms which all sync to iTunes on 8TB drives in the rack. Two Arcam DAB tuners provide digital radio.

All up there are 16 areas of entertainment made up of four 5.1 zones and twelve stereo zones all powered by Crestron amplifiers. One such location is the pool area which features an elaborate James Audio 8.1 speaker system and Crestron WPFR-48 waterproof remote control for the ultimate outdoor audio experience!

All display locations feature Crestron TPMCI-3X remote controls while a couple of Crestron TPS12LW 12” in-wall touchscreens provide whole-house control and view the security cameras. The integration is extensive controlling 8 zones of floor-heating and 65 motorised devices made up of blinds, curtains, awnings and motorised skylight windows.

Peter adds, “This was the first Crestron DigitalMedia™ fibre project in Australia. We anticipated a degree of learning and fault finding throughout the process and highlighted this to the client at the time. In fact it was completely the opposite. The installation, termination, commissioning and programming of the system was actually easier and less time consuming than a traditional copper project. (On completion) all displays and projector were ISF calibrated... where the certified calibrator commented that the ‘picture quality from the distribution system was amazing’ ”.

“We often read the words ‘future-proof’ or ‘smart-home’. For the very first time we feel that this may actually be an appropriate description of this project... It doesn’t suffer from any annoying HDMI / HDCP issues we all experienced when the industry was coming to grips with protected content. It also has the bandwidth and hardware expansion to deal with whatever is on the horizon for many years to come”, Peter Greentree.

Since the local release in September 2009, there are now over 100 completed Crestron DigitalMedia™(DM) projects in universities, boardrooms, luxury homes and entertainment venues throughout Australia, and growing rapidly. DM is the only solution for the digital age, distributing all analogue and uncompressed HD digital signals, and managing embedded data such as HDCP, EDID and CEC.

Supplied by: Len Wallis Audio and CEDIA Asia Pacific.

PROJECT SPOTLIGHT



Equipment List

- 8 x Crestron DMRMC100F Digital Media Room Solution Boxes
- 6 x Crestron TPMC-3X Handheld Controllers
- 1 x Crestron 3X Wall Mount for 3X in white
- 5 x Crestron TPMC12LW 12" Wall Mount Touchpanels
- 2 x Crestron C2NDB12W 12-Button Decorator Keypad
- 4 x Crestron TPS4LW 3.6" touch screen, wall mount, white
- 1 x Crestron Xpanel software running on PC
- 6 x Crestron IDOCV Ipod Dock with video output
- 2 x Crestron Waterproof 1-way RF/IR Handheld Remote
- 1 x Crestron Remote Gateway for WPRI48
- 5 x Crestron CP2E Control System
- 1 x Crestron AV2E control processor with Ethernet KIT
- 2 x Crestron CNAMPX112X60 12 channel X 60W intelligent amplifier
- 4 x Crestron CNPWSI75 External Power Supply
- 8 x Crestron CNTBLOCK Terminal Block
- 6 x Crestron CNXBIPAD8A 16 source/8 room stereo audio distribution processor
- 1 x Crestron DMMD16X16 Digital Media Matrix with input and output cards
- 1 x Apple TV 160Gb
- 1 x Apple iPod Classic 160 Gb, Black
- 1 x Crestron CENISERVER Audio Server/iPod Interface, 1RU Rack Mount 1RU
- 1 x Crestron C2N CAMI-DJ Camera Distribution Matrix
- 1 x Crestron Digital Media Fibre Optic Cable



About Hills Sound Vision and Lighting (Hills SVL)

Hills Sound Vision and Lighting (Hills SVL) is the leading provider of professional audio, audiovisual, lighting and digital signage solutions in Australia and New Zealand.

For over three decades, we have led the market in the seamless integration of next-generation audio, audiovisual, control and lighting technology. We are a division of Hills Industries Limited and have branches in Sydney, Melbourne, Brisbane, Adelaide, Canberra, Perth and Auckland.

Since 2005, we have been the Australian home of Crestron products, introducing the power and reliability of the world's most advanced electronic control systems into homes, offices, schools, shopping centres and entertainment venues across the country.

Today, Hills SVL is making soundwaves that are circling the globe, with our Australian Monitor Revolution Series, AMD mixers and amplifiers attracting sales – and acclaim – on all five continents.

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