



► *bendigo Audio Visual* ► *Spring 2012*

► **WELCOME**

Welcome to the new look Spring edition of our newsletter. The year has been flying by with many installations completed around Central Victoria and beyond. We have upgraded quite a few school PA systems, which included automatic bell and music playback devices, as well as reaching full completion of two fully automated Conference and Training rooms for East Grampians Health Service which is featured in this edition.

We hope you find items this newsletter of interest and if you require more information on how we can help with completing your Audio Visual Installation, please give us a call.

Regards,

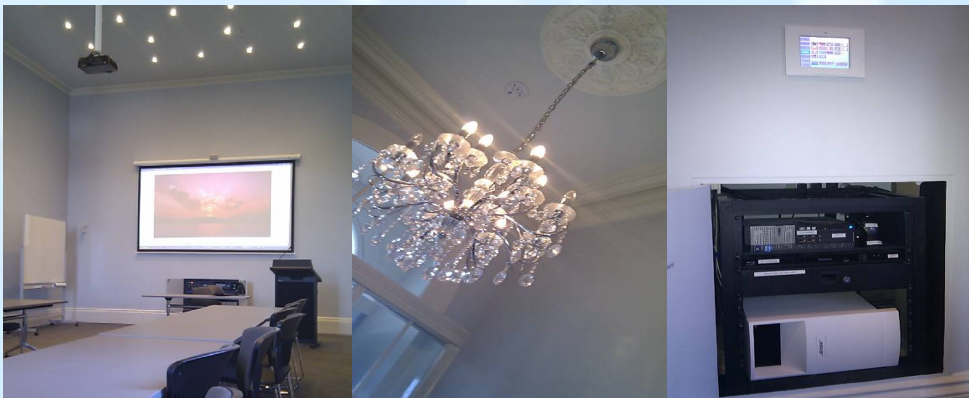
Daniel O'Brien
Bendigo Audio Visual
Completing Your Vision

► **Conference Centre Control**

Pyrenees House, a 1886 gold boom building, has been developed into an education, training and conference facility. A major renovation for the building was the ideal time to include a modern Audio Visual System.

Bendigo Audio Visual was commissioned to design and install an easy to use and flexible Audio Visual Presentation System with modern equipment that would be able to be upgraded for future needs.

The heart of the system design and control is a Crestron Touch Screen Automation system which enables users to easily set up the AV system for different presentation scenarios with the press of a button. Continues on the next page...



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In this newsletter...

Wireless Microphone Changes

The Australian Government is making changes to the frequency bandwidth which wireless microphones use. See how this affects you.

Conference Centre Control

See how a Control System with touch screens has made operation of the AV System at East Grampians Health Conference Centre very easy.

School PA System Upgrades

Most PA systems in school have been around well over 30 years and eventually they will need upgrading. Bendigo Audio Visual can install a complete new system once the old faithful finally gives in. Find out what's available.

HDMI Install as Standard

See why we quote all new installations with HDMI as standard.

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► Conference Centre Control

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The renovation took place in a Heritage Listed Building requiring the AV System to blend in seamlessly into the background of the building. All new cables were channelled into the brickwork and covered back with render and plastered over. With careful planning of the design, the main equipment racks were able to be fully enclosed in dedicated cavities of the walls so that all equipment could be hidden behind flush mount doors, whilst still providing quick and easy access for end users and service technicians.

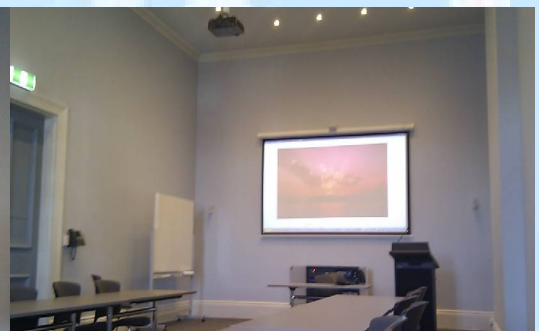
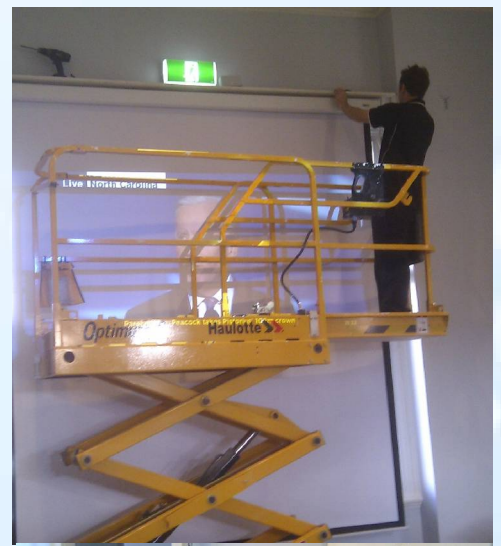
The system which will primarily be used for training and presentations, includes a default lectern position in each room. The default lectern position includes a floor box for power and laptop computer connections. Presenters can provide their own laptop computer to connect into the system via standard VGA+Audio connections or newer HDMI connection. There is also a built in fixed computer on the organisations network for staff presentations.

The system includes a Native High Definition Projector, Surround Sound Audio for Blu-ray / DVD and Free to Air TV. In-ceiling sound reinforcement for lectern and wireless microphones were installed which are also connected to a Hearing Induction Loop that covers the whole audience area.

The Touch Screen System enables end users to have easy control over all features of the Audio Visual System. The main conference room lectern includes a built in touch screen along side fixed touch screens built into the wall of each conference room. The lectern with the built in touch screen has the ability to move between either room for added flexibility. This enabled the project to be on budget whilst still allowing the system to be upgraded should the needs of the venue change.

The following equipment was installed:

- Control Processor - Crestron CP2E
- Touch Screens – Crestron 6" TPS-6L
- HD Projector – Vivitek HD925
- Electric Screen – Image 120" Screen 16:9
- Audio Mixer and Amplifier – Australian Monitor AMD100
- Surround Sound – Denon 7.1 Surround Sound
- Wireless Microphones – Mipro Lapel and Handheld Systems
- Hearing Induction Loop – Ampetronic ILD 500
- Lighting – C-Bus Lighting Control over Ethernet



▶ **Wireless Microphone Changes**

The Australian Communications and Media Authority (ACMA) is looking at how the frequency of wireless microphones are being used in Australia with the switching over to an all Digital Free to Air Television System. Presently wireless microphones operate in the unused area of frequency that Television broadcasters are allocated. Currently this frequency range is 520-820 MHz. The frequency range of your wireless equipment is normally printed on the back or bottom of your wireless microphone receiver or on the LCD menu display of multi channel equipment.

Once all Analog television services are switched off the frequency ranges 694-820 MHz (known as the Digital Dividend) may be re-allocated to other users, so wireless microphones may not be able to operate in this frequency band. As this is still in the planning stage it is unknown as to what the final arrangements will be. If you are buying new wireless equipment it is advised to purchase equipment with the largest possible frequency range. A multi frequency range enables you to switch to a different frequency on your wireless microphone system depending on the ACMA final re-stacking decision.

To keep up to date with how the changes may effect your systems visit:

http://www.acma.gov.au/WEB/STANDARD/pc=PC_312475 or <http://www.australianmusic.asn.au/awag.asp>

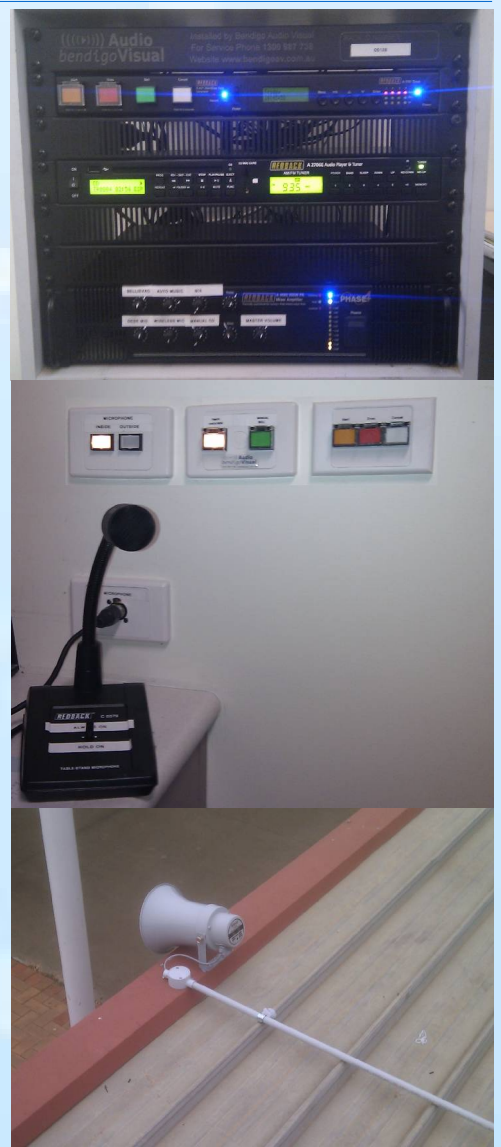
▶ **School Public Address System Upgrades**

Many school PA systems have been around well over 30 years and eventually comes the time to upgrade the system. Bendigo Audio Visual can install a new system once the old faithful finally gives in, designing and installing a much simple to use system. Especially for re-programming those old bell timers around daylight savings time.

A common problem that can cause school PA systems to pack up can be damaged cables. Often customers say "The system plays up when it rains, other times it works fine." This can be caused by cabling shorting out when it gets wet. This occurs when cables are installed on roof tops without any conduit for protection or it can also be due to faulty speakers. Over time weather exposed cable can become brittle and the plastic coating of the copper will break away. This in turn can short for the system, causing poor sound quality and strain on the amplifier.

When upgrading your school PA system it is always a good idea to have a system check of the cables and speakers to ensure that the new amplifier installed is best suited for the size of the school and that it will also cater for future expansion of extra buildings with speakers.

Bendigo Audio Visual can provide you with a system to suit your needs both now and for future expansion. Systems can be designed so different areas of the school are separated into different zones. Automatic timers can make better use of your system and can include Music, Pre-recorded announcements, and different selections of Bell tones to be timed to start at different times of the day or week. Contact us if you would like some ideas on how your system can be upgraded to better suit your needs.



► **HDMI Installaion as Standard**

HDMI or High Definition MutilMedia Interface is now the most effective medium when connecting equipment, overtaking the traditional Analog VGA (Video Graphic Array) connection which has been included on laptops and computers for many years. You will now start to see that new laptops including only a HDMI output connection. All of our Projector and LED/Plasma Installations are now quoted to install HDMI wall plates and cabling as standard, as well as quoting on 16:10 Widescreen Projector and Screen Systems unless requested otherwise. This enables new laptops to be connected to the system with crystal clear digital images without the image needing to be stretched or have black bars down either side of the projected image.

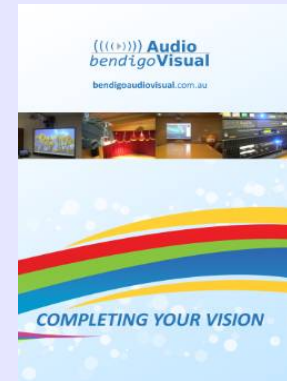


Due to distance limitations of HDMI signal, high quality cables are needed to be installed for long cable lengths. Where installation points are over 15mtr, a HDMI over Cat5/6e system is needed. There are also products that can covert HDMI signals back to Analog VGA signal. So if your new laptop doesn't connect into your existing system, you are able to complete a minor upgrade without the need to replace projectors and cabling. Contact us to find the best solution for your needs.

Why Choose Bendigo Audio Visual?

At Bendigo Audio Visual we understand that deciding on your next AV Installation is a very important decision. When it comes to Audio Visual Equipment this can also be a considerable investment in cost also.

All our quotes come in a easy to understand format explaining exactly what type of system will be installed.



You can also witness reasons why you will benefit from choosing Bendigo Audio Visual for your next project by visiting our website to find out more or call us on 1300 987 738.

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