D.I.B AUSTRALIA
Audio Visual Systems

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NEWSLETTER

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Penola Catholic College – VET / Hospitality Kitchen

Penola Catholic College is a Co-educational Catholic Secondary College serving the needs of students in the north western suburbs of Melbourne. The College is located on two campuses - Glenroy for Years 7 - 8 and Broadmeadows for Years 9 - 12.

There has been significant ongoing refurbishment and construction of new buildings on both campuses over a number of years. This has improved the facilities and grounds for members of the College community so as to enhance the quality of teaching and learning.

Recently the school has refurbished its VET / Hospitality kitchen to better assist the students with learning the crucial living skill – cooking. Consulting Engineers from BRT Consultants were engaged to design the electrical aspects, having worked with BRT on various specialist projects for more than 8 years and having a relationship with the school, DIB was called upon to assist.

Solution consultant Sam Garden organised an appointment with the school ICT manager Anthony Austin and Property Manager John Gribble. Through the initial meeting, Anthony and John pointed out that the school wanted to set up a TV panel to live stream the cooking process on the bench and to have it displayed to the students, so that the crowding issue caused by all the students standing around the cooking table could be avoided.

Anthony also mentioned that the **building work was already underway, which meant all the cables, brackets and ceiling speakers needed to be roughed in before the building contractors put on the plaster.**

DIB Australia installed a Panasonic 50'' HD Professional panel over the top of the cooking bench, with a hidden colour camera mounted behind the panel to enable the live stream of cooking. Coupled with this is a Joey Micro control panel which was also mounted beside the wall, so the operator can switch on/off, choose the video input as PC/camera video, volume up/down etc. by simply pressing a desired button.

TOP: A Panasonic 50'' HD (1024 X 768 Resolution) Professional plasma panel is installed in VET/Hospitality Kitchen at Penola Catholic College

Because the kitchen was likely to be a noisy environment, DIB designed the solution to have four speakers recessed into the ceiling cavity, nicely out of the way. Coupled with a compact amplifier all controllable from the wall panel, the system was effective and simple to operate.

Despite the urgent nature of this requirement, DIB Australia was able to work quickly and effectively with both BRT Consultants and the school, helping to ensure a well matched quality outcome. The hardware was fitted off directly with the school post building site hand over.

With this equipment installed in the food technology room, students at Penola Catholic College are now able to study their cooking lessons in a much more open and enjoyable learning space.

For more information on how D.I.B Australia can assit you with the design and installation of audio visual solutions for the VET/Hospitality Kitchen please contact a D.I.B Solution Consultant on (03) 9457 4800

Yarra Valley Grammar – Digital Signage System

TOP: The sports complex at Yarra Valley Grammar. **ABOVE:** A 42'' Panasonic Basic HD Professional plasma panel is installed at the entrance.

Yarra Valley Grammar has a proud tradition. Established in 1966, the school opened its doors with 135 students. The School has grown to become one of Melbourne's leading Anglican, Co-educational independent schools with an enrolment profile of 1100 students. The School is committed to offering a diverse curriculum program empowering students with the confidence to achieve their personal best.

The School particularly values the concept of 'teamwork' and this extends to all disciplines. An example of this is the School's state-of-the-art sports facilities incorporating extensive playing fields, swimming pool, synthetic hockey pitch and tennis courts, two gymnasiums, fully equipped weights room, change room facilities and seating for up to 200 spectators. With these facilities, the School has consistently performed well on the sporting scene.

To compliment the sports curriculum, the School was looking to technology to enhance the offering; a digital signage solution to display dynamic pictures of students competing at state, national and international levels.

The Performing Arts Centre manager Mr. Paul Sherriff approached DIB Australia seeking a solution. Once briefed, DIB Australia solution consultant Sam Garden proposed the installation of a 42'' Panasonic Basic HD Professional plasma panel, bundled with market leading PADS digital signage software application. This application comes complete with the backend server software and editing software allowing full control of screen content, advanced schedule, integration with websites, RSS feeds etc.

A very high spec compact digital signage PC was mounted behind the plasma panel with full network connectivity capabilities. This compact low power machine will cater to a variety of digital signage applications with embedded video, web pages, scrolling text and more, all simultaneously as required.

With the new digital signage system installed at the entrance of the Sports Complex, Yarra Valley Grammar is able to display photos of sports competitions and dynamically update content, all with the aim of further empowering students with the confidence to achieve their personal best.

For more information on how D.I.B Australia can assit you with the design and installation of digital signage system please contact a D.I.B Solution Consultant on (03) 9457 4800

ALSO INSIDE THIS ISSUE...

STAR OF THE SEA COLLEGE — PERFORMANCE ARTS CENTRE AUDITORIUM

Founded by the Presentation Sisters in 1883, Star of the Sea is a prestigious Catholic College which caters for the education of young women in Gardenvale/Brighton and the surrounding area and has been doing so for the past 128 years.

In pursuit of providing a more adequate facility for the thriving performing arts/drama/music and P.E. faculties that contribute to a large and valuable component of the school's curriculum, Star of the Sea College made the decision in 2010 to construct a Performing Arts Centre (PAC) at the school.

Architectus Melbourne was engaged by the school to design and manage the construction of the 3-storey building, with the sub-ground floor being the dance/drama/multi-purpose rooms and the first floor being the auditorium. Knowing that DIB Australia had been working with Star of the Sea College supplying and installing various other audio visual systems since 2008 and having worked with DIB before, the architect David Strachan contacted DIB Australia regarding design for a projection solution for the PAC.

During the design phase, Solutions Consultant Sam Garden, from DIB Australia attended numerous meetings with David and various staff at the school to discuss the AV systems installation and their specific functional needs. Prior to DIB's involvement, the projector had been earmarked for installation in the middle of the PAC ceiling space (making it an eyesore and difficult to service). Also a single stage motorized screen was planned which would have left the screen canister hanging lower in the main stage area when not in use.

After various meetings and design checking, it was proposed by DIB that a better solution might be to locate a special projector in the bio box at the back of the room and shoot the image like an old movie theatre down to the screen at stage level.

In fact two screens were designed and proposed. The first primarily a presentation screen which would be smaller in size, with a brighter and sharper image more forward in the stage area. This primary presentation screen was designed to be a special double motorised screen, although it was large at about 180" diagonal, when not in use the screen would retract into the canister and the canister would then retract high up into the stage area getting it out of the way for productions when not needed. The second proposed screen was to create a large screen using a backdrop screen positioned at the rear of the stage. DIB designed the combination of screens and projectors so that the single location hidden nicely away in the bio box (providing attractive aesthetics and easy maintenance) would work for both locations.

To ensure the longevity of the projection system (and on the advice of DIB) the school elected to install a greater than FULL HD (High Definition) projector with an amazing resolution of 1920 x 1200 pixels proving for full High Definition play back of school created content on a very large 180" screen (3875mm x 2420mm).

With consensus reached on the solution approach, DIB worked closely with the Architect, Consultants, School and builder to help ensure required building changes were designed and accurate.

Once the cabling was completed during construction the equipment was installed. The Epson premium EB-Z8000WU 6000ANSI was installed into the bio box projects through the wall, and a 180" 16:10 Skyshow motorised projection screen into the stage ceiling. In addition, a full high definition digital set top box, blu ray player and audio volume control was installed in the control room to facilitate the needs of high quality presentation.

There are 6 different VGA input plates installed within the auditorium to enable users to connect the projectors at any preferred locations. Two Joey Lite control panels have also been installed at both the entrance and the control room to enable users to switch on/off the AV systems by simply pressing one button, rather than finding multiple different remote controls. In addition, the environmental power system allows multistage power control which will turn on and off equipment in the rack in 3 stages when activated, helping to reduce the running costs associated with equipment being left on whilst not in use or when equipment is in standby mode.

DIB Australia recently completed the installation in March 2011, and equipment commissioning has since been performed. The end result is a fully automated system providing for all key requirements at the press of a button. The premium Z series higher than HD projector providing for high quality and colour vibrant images on all screens.

Audio visual systems are requiring increasing amounts of specialised design to ensure an outcome that is ideally integrated with building features and function (coordination between AV design and architecture) and thanks Architectus and their team Star of the Sea College has just such a result.

For more information on how D.I.B Australia can assist you with the design and installation of audio visual solutions for your learning centre please contact a D.I.B Solution Consultant on (03) 9457 4800.

1: Performance Arts Centre Auditorium at the Star of the Sea College
2: The ceiling mounted 180" 16:10 skyshow motorised projection screen
3: A full high definition digital set top box, blu ray player and audio volume control is installed in the control room
4: The long throw Epson Premium EB-Z8000WU 6000ANSI lumens projector is installed into the bio box projects through the wall
5: The Joey Micro Control Panels are installed in both the entrance and the control room

ABI 65" Interactive LCD Touchscreens

The 65" Interactive Display, with the latest quality High Definition (1080p) LCD, incorporates finger touch technology creating a multipurpose unit for any educational or corporate usage (classroom lessons, digital signage and information touchscreen etc.). It reduces the need for multiple audio-visual items such as interactive whiteboard (IWB), copyboard, monitor and projector and speaker system.

Coupled with each interactive display, IWB software is included free to facilitate education and training functions. The interactive display is bright in all light conditions and there are no shadowing or reflection issues with traditional IWB systems, neither is there the need to calibrate when the interactive display is being moved. Without the need for a projector, the maintenance costs can also be reduced from costly replacement projector lamps.

The Interactive Display can be utilised as a copyboard to make notes during brainstorming sessions, simply by creating a blank white screen and writing notes for printing. The Handware Recognition software is capable of converting handwriting to typed notes when required.

The Interactive Display features a digital signage function, enabling customers to have the freedom to interactively advertise their products and services. Digital signage software is readily available to incorporate a range of advertising and signage functions with interactivity, enabling the use of video, data and audio for a full multimedia experience. The incorporation of interactivity ensures a complete customer experience and allows customers to choose colour schemes, select virtual reality, etc.

For corporations such as office buildings, shopping malls and hotels, the Interactive Display can be utilised as an information touchscreen so that visitors can find the information they need. Corporate videos, general information or advertisements can be running if the information touchscreen is not accessed by visitors.

A portable solution is also available with the Interactive Display, and it can be moved around a building by mounting it on the mobile stand. The regular stand has built-in shelves for equipment (eg. PC or laptop), with lockable castors to ensure the stand is stable during use.

For more information on ABI 65" Interactive LCD Touchscreens please contact a D.I.B Solution Consultant on (03) 9457 4800

HINTS & TIPS

PROJECTOR LAMP RECYCLING

Most front and rear projection LCD / DLP lamps contain highly pressurized chemicals that ignite to create a very bright, energy-efficient light output. One of the chemicals used in the manufacture of projector lamps is mercury, which is an extremely toxic heavy metal.

THE DANGERS OF MERCURY ARE:

- Corrosive
- Causes burns to skin, eyes and respiratory tract
- Fatal if swallowed or inhaled
- Harmful if absorbed through skin
- Affects the kidneys and central nervous system
- Harmful to aquatic life
- Bio-accumulates - not biodegradable

Depending on the amount of mercury in the lamp, it may be classified as a hazardous waste. It is recommended that all digital projector lamps be treated as hazardous waste and disposed of through the hazardous waste collection programs or recycling services.

At DIB Australia, we offer FREE RECYCLING of your projector lamps**.** We return all the used projector lamps to the processing plant that crush the lamps to separate the components, then environmentally friendly chemicals are used to remove mercury and neutralise it through distillation. Other components are melted down for re-use.

Through this process, approximately 97% of an average projector lamp can be recycled, reducing what would otherwise be e-waste entering the environment.

Therefore, to prevent environmental contamination and to free up your storage space, you can feel free to post your used projector lamps to:

D.I.B AUSTRALIA AUDIO VISUAL SYSTEMS P/L

9 Percy Street, Heidelberg West, VIC 3081

And we will recycle the lamps for you.

AUDIO VISUAL SYSTEMS CONSULTATION OR ADVICE

D.I.B. Australia have been designing and installing integrated audio visual systems and servicing audio visual equipment for 12 years. We have teams of in-house installation and service technicians and are proud of the quality of our audio visual system designs and installations. We have extensive experience consulting with leading architects, consultants and builders, and working with education and corporate clients to achieve superior audio visual solutions.

For consultation or advice on audio visual systems, please contact us on (03) 9457 4800, or email to lgan@dibaustralia.com.au for more information.

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