



Audio Visual Systems

# NEWSLETTER

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## OUR LADY OF THE SOUTHERN CROSS CATHOLIC PRIMARY SCHOOL - PREPARING STUDENTS FOR THE FUTURE

Located in Werribee with a 21st Century Learning environment and a focus on faith, Our Lady of the Southern Cross is a Catholic primary school providing their students with a good balance of the necessary skills for their futures. Mrs Jennifer Poon, the school's principal, says that, "Information technology is embedded within the Learning Space and our students have access to Oracle Virtual Desktop computers, Apple iMacs, MacBooks, iPads and Microsoft Windows laptops. We believe it is important to expose students to a variety of computer platforms, so that they are confident with any computer system and a variety of software in the future."

The school recently had a new building project and contacted DIB Australia to ensure that they could achieve their goals with integrating interactive technologies into their spaces. It was important that we worked closely with the school and building project manager before and during the installation of cabling so that infrastructure was ready prior to walls being erected. This ensured that the school had an aesthetically pleasing finish which met the needs of their staff and students.

to face any issues with computer drivers and wanted staff to feel confident in using the technology.

In total, 8 Learning Spaces were installed with Epson EB-485Wi ultra short throw interactive projectors, 30W Epson speakers, JED wall controllers and inputs for HDMI, VGA, USB interactivity and audio. They also decided to add Apple TV systems to their spaces so that their students and teachers could reap the benefits of the school's BYO iPad program, through the new interactive projectors. Using the bright Epson interactive projector on a normal whiteboard provided more flexibility, reduced overall costs and eliminates the accidental problem of whiteboard markers on fixed interactive whiteboards. The overall solution was quickly implemented with little interruption to the school's day to day activities.

It was critical for the school to have consistency when it came to their audio visual equipment. They did not want

Professional development is very important to the staff. Training was provided by DIB Australia leaving teachers enthused and eager to start using the new technologies to enhance their teaching and the students' learning. Mr Brian Riley, ICT Manager, said, "DIB has always been professional and their service has been to a high standard. They managed the timeline to suit our building program for which we were most appreciative."

*For more information on Audio Visual equipment for classrooms, please contact a DIB Solution Consultant on (03) 9457 4800.*



Epson interactive projector with JED control panel and tidy wall plate connections



Epson EB-485Wi projector and 30W Epson speakers

## HOLMESGLEN INSTITUTE OF TAFE – TECHNOLOGY SERVICES

Holmesglen in Melbourne is a premier provider of vocational and higher education. Their mission is to deliver an education that provides qualification for a career path. They achieve this by building bridges with industry to ensure they have current knowledge of working practices and connections in industry that students can access to launch their careers.

To keep things consistent with their other systems they elected to use the Epson ultra short throw projector with a 2Touch interactive whiteboard in one meeting room. For the other space, which was larger and brighter, they chose a 75" LED touchscreen from Commbox. As DIB Australia has previously completed a number of installations at Holmesglen, we were able to provide them with some consistency with their equipment and preferred input and control panel locations.

We recommended AM60CS speakers to be installed into the ceiling. These speakers come complete with a heavy backing box that mutes the spillover from the speakers ensuring that there's no carryover of sound into other rooms through the ceiling space.

They have recently upgraded their audio visuals for their newly refurbished Technology Services meeting space and boardroom. They wanted to provide a meeting space that allowed easy sharing of ideas and collaboration between teams. From an aesthetics point of view, they were also keen to use neat ceiling-mounted speakers but they wanted to be certain that sound from meetings would not spillover into other areas of the building.

To ensure that the cabling was neat and didn't interfere with the aesthetics of the rooms the project team explored several options before deciding on the new Kramer TBUS custom table box which allows cables to be pulled up from the floor when the box is in use and for them to be stored neatly away below a table when they are not. It's an easy system to do this with and only a single cable needs to be manually connected for the service to work.

Finally, they completed the setup with wall mounted control panels. This allows touch button access to the audio visual system independent of remote controls for greater flexibility and ease of use.

"The job has been done really well. We are very pleased with it."

*For more information on Audio Visual equipment for Meeting Rooms/Boardrooms, please contact a DIB Solution Consultant on (03) 9457 4800.*



Boardroom's 2Touch interactive whiteboard with Epson ultra short throw projector



Touch PC with control panel



Commbox 75" LED touchscreen in Open Space

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# St Catherine of Siena Parish Church – Preparing to Engage a Congregation



St Catherine of Siena Parish in Caroline Springs was established just under 8 years ago. Under the leadership of the inaugural parish priest, Father John Tolan, a Church building has been constructed. The project was funded partly by parishioners and partly by the Catholic Archdiocese. Mr Pat Gurrie, Chairperson for the building project said, "To experience the full spirituality of Catholic Liturgy we are dependent upon hearing the Word of God and the service of the Mass and taking part verbally and chorally through prompted responses and hymn texts. Equipping our new Church Building, we were seeking a state of the art Audio Visual system which would provide that necessary interaction, and could be

operated without the need for extreme technological expertise as well as be accommodated within a tightly controlled budget."

The Worship Space in the building is unique. It's built in a semi-circle and that creates certain acoustic challenges. In addition, there is a variety of materials used in the construction including a curved glass wall, hard surfaces of marble tiled floor and timber which all added to the complexity of resolving the audio requirements. In a Church building, the audio system needs to occasionally serve as a powerful tool for musical and choral groups but it also needs to be simple to operate during day-to-day liturgical activities.

The Worship Space is large and for the visual displays it was necessary to develop a long-distance cabling solution that maintained the quality of image throughout the system. One unique part of the design of the visual solution was to use the gathering and meeting space screens as mirrors of the main displays when services take place and then to allow them to be used independently at other times.

We began discussions with the Parish in April 2012 and worked with their architects and builders to develop a plan to meet their needs in keeping with the overall design. We wanted to keep complexity in the system to a minimum and we achieved that by simplifying the main control system to 6 buttons on a control panel and adding additional controls that could be accessed from an iPad.

The final implementation was a mix of powerful technology and ease of access solutions. A very high quality Renkus Heinz speaker system, suspended from the ceiling was used. This was designed to provide very

clear audio while minimising acoustic reflections and enhancing the intelligibility of speech.

The audio system design features inputs at the choir area which are tied to the multicore connections and available at a PreSonus mixer in the AV rack. The PreSonus feeds into a master mixer and audio processor which then allows the end user to access audio level control via an iPad app. Key audio areas of the church, be it the wireless mic on the priest conducting the service or the choir area, are all controllable via the audio processor app (all EQ and other DSP settings are locked away).

For the visual side it was established that 2 x 65" LED screens would be the primary displays. DIB recommended Philips LED panels for high reliability and value, and 4 x 42" panels in pairs on either side of the entry doors, all of which are controlled by a simple Extron MLC1041P control panel. To achieve high-quality transitions and image projection we designed the system around a Kramer VP-728 presentation switcher, selectively using PC/VGA, HDMI, Apple TV, iPod or Camera inputs for maximum flexibility. During a service all audio and visual controls are locked down from external interference.

Pat also stated "We are happy to say that DIB Australia was able to tick all the boxes on our requirements and we are extremely pleased with our AV system".

*For more information on Audio Visual equipment for Churches, please contact a DIB Solution Consultant on (03) 9457 4800.*



Philips 65" LED display screens and speakers



Renkus Heinz CFX line array speaker system



AV rack with PreSonus mixing desk



## Complete Capture System

**TEACHER CONTROLLED VIDEO RECORDING SYSTEM FOR USE IN SCHOOLS, CLASSROOMS AND MEETING ROOM LOCATIONS.**

**TYPICAL USES**

- Professional development (P.D.)
- Teacher self-evaluation
- Teacher peer-evaluation
- Meetings (whole staff, faculty, committee etc.)

Discreetly installed cameras and highly sensitive microphones capture and record in high definition as much or as little as you want of a lesson, training session or meeting and can easily be saved onto a USB memory stick for review or sharing at a later date.

**EXTREMELY SIMPLE TO USE**

The system is typically set up so that teachers can record directly onto their own USB stick. Three buttons on the system (record, pause, stop) make recording sessions quick and easy. Teacher presses record and from that moment on, the cameras are capturing everything in the room as well as the audio. At the end of the session, the teacher presses stop and removes the USB stick which has lesson saved in a high quality and readily accessible format.

Lessons can also be captured and recorded using whatever is plugged into the audio visual display. For example, the teacher and front of room can be recorded along with what is being displayed on their laptop. This could then be viewed in playback mode side by side or picture within picture.

**REVIEW OR SHARE**

Review your footage in private for self-evaluation or email and share a professional development session or meeting for those absent.

*For more information on the Complete Capture System, please contact a DIB Solution Consultant on (03) 9457 4800.*





# HINTS & TIPS

## THE CHALLENGES OF HDMI

As many will know, we have long been an advocate of schools installing HDMI as an additional connection into their classroom AV spaces. We have advocated this mainly due to the flexibility of plugging display port into HDMI connectors while HDMI into display port does not work so well.

HDMI, and indeed pure digital display connections, are posing a whole new range of challenges to AV spaces in both education and corporate environments.

Perhaps the biggest issue to face these spaces now is the roll out of many HDMI only laptops and then the adaptors that they are sold with to make them work with VGA display systems. In our experience these adaptors can be of varying quality and can create a large array of display problems for the end user. We recommend that where possible, you get hold of these laptops and adaptors prior to purchase and thoroughly test them with your installed AV systems so that you can forecast any challenges.



Depending on the age of the equipment, the solutions can range from drastic measures such as upgrading AV in rooms and including HDMI, through to sourcing higher quality adaptors or even installing high quality adaptors in rooms to 2nd VGA ports and having the socket setup and programmed on any AV system as HDMI. DIB Australia can assist you with all these options.

For the technical at heart, the essence of many problems with these adaptors is that they may not pass the EDID signals from the display to the connected PC and so the output resolution may not match the display. Also coupled with this, if they do not deal with HDCP (High Definition Copyright Protection) signals correctly then your latest Hollywood blockbusters or iTunes download might not show up either.

*For more information on HDMI connections, please contact a DIB Solution Consultant on (03) 9457 4800.*

## Launch of New DIB Australia Website



We are excited to announce the launch of our newly developed website! It has been a long time coming but well worth the wait with new content, blogs, testimonials, photos and previous newsletters all on hand.

Check it out now and let us know your thoughts...

[www.dibaustalia.com.au](http://www.dibaustalia.com.au)