



Audio Visual Systems

NEWSLETTER

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IVANHOE PRIMARY SCHOOL-INTERACTIVE PROJECTORS

Ivanhoe Primary's objective is to open the door for life-long learning habits for each of their students. They believe that children can be empowered to achieve their full potential and to take responsibility for their approach to learning.

The school was examining the potential for interactive learning technology, in particular projectors. They wanted to make sure that their lessons were as interesting and engaging as possible. That meant adopting a solution across the whole school, one which respected their budgetary constraints and made as much use of their existing whiteboards as possible.



The EPSON EB 475 Wi installed in Ivanhoe Primary School

The whiteboards themselves were a serious obstacle in the path of deploying interactive projectors throughout the school. When they were installed, they were installed on a slant rather than in parallel to the wall and that meant that any interactive projector solution used would have to be customized to project evenly on the surface. **The recommended model was the EPSON Dual Touch Projector (the EPSON EB-475Wi) an ultra-short throw model that could be placed on an angled wall bracket to overcome the issue of the slanting projection surface. This meant that the image would remain undistorted when projected and make it very simple for the teachers and students of Ivanhoe Primary to use the interactive features.** As with most interactive projectors, that means using a pen that acts both as a mouse and as a drawing tool. This allows for a multi-media immersive classroom setting that supports learning in a much simpler way than traditional whiteboards. When connected to a PC you can also save any notes or diagrams that have been made during a lesson and then print them afterwards.

Ivanhoe Primary School will have 13 EPSON-EB-475Wi interactive projectors in its classrooms by the end of October. Rhiannon De Bono, the school's IT manager said; "The final product is excellent. Staff and students are happy with the projector(s) and [they] are used daily, in a variety of different ways."

The school's teachers say that because there's no need for drivers when using these interactive projectors that they've found them very simple to use. They felt that the training session that was supplied to all teachers was very helpful in preparing them for using the EPSON EB-475Wi in the classroom. The school's staff were particularly impressed by



The EPSON EB 475 Wi mounted on an angled wall bracket to overcome the issue of the slanting projection surface

the way that the installation team conducted themselves and that there was no mess left on-site after they had finished mounting the projectors on the walls.

For more information on the EPSON EB475 Wi interactive projector and custom mounts please contact a DIB Solution Consultant on (03) 9457 4800.

HALLAM SENIOR SECONDARY COLLEGE - HOSPITALITY AREA

Hallam Senior Secondary College worked with DIB on their original trade training centre. A new facility designed to support their Years 10 – 12 with a broad range of programs that lead to employment, further education and training. All their programs are built to deliver specific educational and vocational paths for their students.

So when they found themselves looking for a solution during phase 2 of their training centre development they asked us to come back and offer our expertise in this area.

The problem that needed to be solved was finding a way to ensure that all their hospitality students could see what was going on during their lessons. They did not want the students to struggle to get a visual on the specific cooking techniques that they are required to learn to pass their courses. This was partly an architectural issue as certain features of the room were blocking a direct line of sight.

What was the solution? Firstly, **we found that given the complexity of the lessons that it was best to place two 46" LCD screens side by side and use them to project two separate images. In that way there was no switching back and forth for teachers and that meant they could focus more on the teaching of lessons and less on cameras. Students could also see clearly what was going on both in the food preparation area and on the stove top.**

The image quality on this set up is excellent and one of the key advantages of using LCD displays is that the image can be duplicated endlessly with no loss of quality. Thus it



46" NEC LCD screen displaying HD camera



Two LCD screens side by side to display food preparation area and stove top in full HD

was possible to give every student access to what was going on by placing two banks of paired screens in the environment. The architecture could not then interfere with anyone's ability to follow what was going on. The screens support two high definition cameras that offer a crystal clear image of the cooking in progress. When the cameras aren't in use, teachers can connect a PC or a DVD player to the screens for additional flexibility in their lesson delivery.

This was further supported with an audio set up that allowed teachers to be heard in every corner of the room using a wireless microphone headset.

Finally, the school chose to use a video recording system as well that means there is a record of every lesson enabling students to go back and review their learning when they need to.

The teachers wanted all the options to be as simple to use as possible and not to interfere with their teaching at all. They use a simple 6 button control panel to manage input sources, volume and to switch the screens on and off.

What do Hallam's staff say about the new solution? "The kids absolutely love it! They particularly enjoy being able to record their classes, and then have them available to view again later."

For more information on AV solutions for hospitality and food technology areas please contact a DIB Solution Consultant on (03) 9457 4800.

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The Panasonic LCD screen in the narthex with the main projection screen in the background

RESURRECTION CATHOLIC CHURCH & PRIMARY SCHOOL - PARISH AV

The Resurrection Catholic Parish Community has recently chosen to upgrade their church in order for members of their congregation to be able to more easily participate in worship. In particular they wanted to do away with hymn books and project the words on a screen for parishioners to easily read. They also wanted to be able to share photos and images with their community.

Resurrection School is a Catholic Primary school that is dedicated to bring its vision; "We Care" to life in its students. They strive to meet the needs of children in the 21st century, while creating a community that understands how to express and celebrate its faith.

The space inside the church presented certain challenges. The unique octagonal structure combined with high ceilings made it awkward to install audio-visual equipment. It was also important to respect the floor as a place of worship and the church wanted to ensure that any equipment that was installed would not interfere with the natural light that fills the environment and keeps it feeling warm and welcoming. Finally, the congregation sits in a circular pattern and it was important that every member could see the screens clearly.

Father Noel Brady and John Kremers, the

school's principal, and several members of the church's Information Communication Technology Group spent a long time in discussion with DIB and its technicians in exploring the uses of lighting and other technology. **An initial plan to use LCD screens was eventually shelved in favour of projection screens in order to get the largest possible projection area for parishioners to be able to read the hymn lyrics.** However, in order to get the level of brightness that was needed it was essential to get hold of the latest 10,000 ANSI projectors. Since DIB has a strong relationship with EPSON we were able to get hold of two EPSON EB-Z10000's as they came off the production line. This level of technology also provides strong future proofing as today's advanced models have real longevity. **The church also has an adjacent hall in which they wanted to display the hymns and images and they decided to use the ESPON Z8000WU which is a stunningly high quality projection model. When used in concert with the EPSON EB-Z10000 the images are amazingly clear even in the large space that they are employed in.**

There is also an HD camera system installed in the chapel which allows the service to be projected into the hall easily when there's an overflow of worshippers for mass. The images being displayed in the main hall are also mirrored on a 65" Panasonic LCD screen in the narthex.

It's now very easy for worshippers to keep pace with the lyrics as any of the 9 different church choirs perform.

During homilies there is an integrated wireless control for iPads so that PowerPoint presentations can be broadcast easily over the screens. This includes any relevant images for the priest homily.

One of the really nice touches that the church has employed is the camera in the baptismal area. This enables the whole congregation to share in the joy of a baby joining their faith, something that wouldn't have been possible until fairly recently.

Resurrection Church's committee said that they were very pleased with the use of the space (the projectors are nearly invisible when not in use), and one of the key factors that enabled their decision was being able to have a demonstration of the projector in the space that it would be used in. This gave them confidence that it was up to the task and that no parishioner would be struggling to join their voice with others'.

For more information on Parish AV systems please contact a DIB Solution Consultant on (03) 9457 4800.



The EPSON EB-Z10000



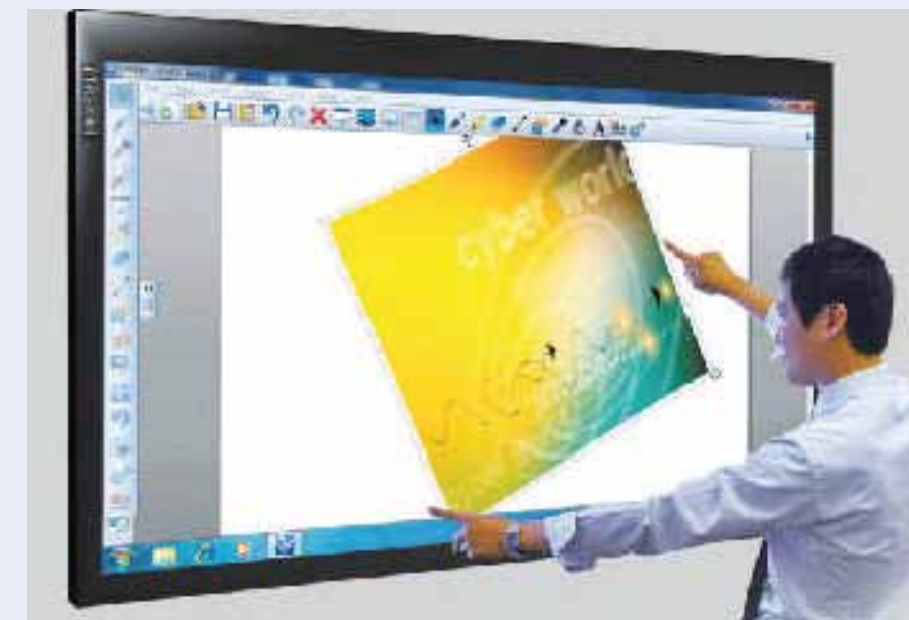
The HD camera used to capture the mass in the chapel



The adjacent hall with HD camera feed



The projection screen displaying the image from the baptismal area



2TOUCH LCD PANEL

The 2Touch integrated LCD touch panel provides users with the touch precision of an interactive whiteboard combined with the definition of a full HD LCD screen.

The 2Touch LCD panel uses a commercial grade panel integrated with 2 Touch's very own optical touch solution. This enables a superior touch capability and greatly enhanced usability compared to other solutions currently in the market. In addition, the 2Touch optical solution requires no special pens to run, leaving the solution open to touch control.

With its anti-glare wide screen the full HD 2Touch LCD panel provides a crystal clear display for any environment. With the option of connecting via either an HDMI or VGA cord your computer connects easily and instantly.

Also, by using a rear projector surface (unlike interactive whiteboards) you eliminate common symptoms associated with front projection touch screens, such as user shadowing, continual mount movement and realignment issues.

The 2Touch LCD panel combines the precision of an iPhone with the large screen capacity of an interactive whiteboard. All you need to do is connect your computer via a USB cord and instantly you have touch screen control over your entire computer. Any program can be used, as well as connections to networks and the web ensuring all information is fully accessible.

While the most popular screen sizes are 50" and 70" they are also available in 46", 65", and 82". The 2Touch LCD panel comes with the dynamic 2Touch Workbook software, which enables you to mould the LCD panel into a collaborative space.

The touch panel is not limited to connecting just to your computer. The panel comes ready for use with a variety of alternative inputs: DVD/Blu-Ray players (HDMI and RGB component connections), gaming consoles, satellite TV receivers etc.

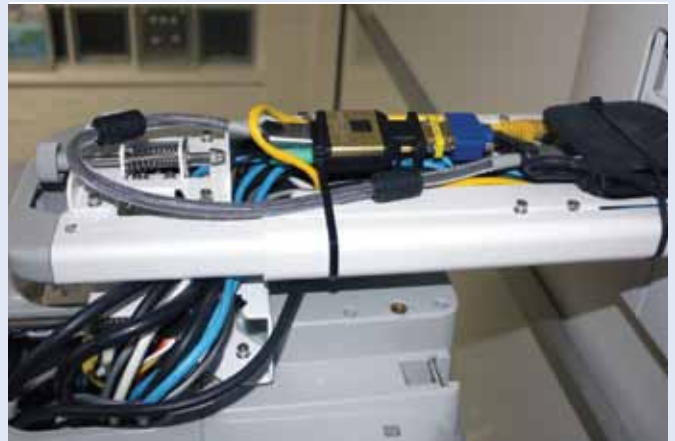
For more information on the 2Touch LCD panels please contact a DIB Solution Consultant (03) 9457 4800.



HINTS & TIPS



Our showroom EPSON EB-485wi integrated with Apple TV



Apple TV creating a wireless projector

CREATING A WIRELESS PROJECTOR WITH APPLE TV

For many years now our clients have yearned to have a simple and effective solution for wireless connection to a projector. That is for the connection of their computer device wireless to their classroom or office projection system.

There have been many solutions from EPSON, NEC, Panasonic and many more, however thus far no solution has ensured optimum picture quality without the need to somehow selectively upload content etc. Many have been good, none (that we have tested) have been great.

At the end of last year we started testing and installing solutions to link the Apple iPad with classroom projector systems (Apple TV iPad mirroring). The solution was and still is Apple TV.

Now we know that this solution is limited to users of Apple technology and is therefore not ideal; but given the uptake of Apple iPads and other

devices in schools this solution is still very valid and gaining traction daily.

The results when you connect your iPad with an Apple TV box to your display system are very very effective.

Perfect mirroring of your onscreen content, including perfect video streaming with no frame dropping etc. Indeed if you have multiple Apple TV boxes you even get synchronised audio.

The common hurdle in this equation is that Apple TV outputs as HDMI and many installed projectors and even new units don't have a HDMI connector.

The solution is a quality HDMI to VGA and audio converter. The boxes we use don't require power and are small enough to be connected right at the projector. They output VGA via a 15 pin standard connector and the audio via a small audio jack.

They are also low cost. We normally install them using some very short HDMI and other leads so that the whole package, Apple TV box, HDMI to VGA converter and leads can all sit nice and neatly at your projector.

Note: The photo's above, taken in our showroom show an Apple TV box integrated with an EPSON EB-485wi interactive projector.

For more information on how DIB Australia can help you create a wireless projector with Apple TV please contact a Solution Consultant on (03) 9457 4800

Introducing The [interactiveprojectors.com.au](http://www.interactiveprojectors.com.au) Website



We would like to introduce [interactiveprojectors.com.au](http://www.interactiveprojectors.com.au), a website full of information, tips and advice on everything relating to Interactive Projectors and how you can get the best use out of them. We regularly update the website with posts on the latest technology options and trends that we have observed in the interactive projectors space.

So log onto www.interactiveprojectors.com.au and see how you can get the most out of your interactive projectors.