

## Upgrade breathes new life into a community treasure



**The Trinity Uniting Church at Brighton has a history stretching back to 1875 when the church was considered central to the area's social and spiritual life. Today, the church is regarded as one of Brighton's historic gems and is still in use daily as a place of worship and social gatherings in the local community.**

To fill its multi-purpose role, the church needed to upgrade its ageing audio visual system to a more dynamic solution. The church management committee, familiar with the work DIB Audio Visual had done for another church in the area, turned to DIB for advice in upgrading their existing AV system.

### CARING FOR AN HISTORIC GEM

Of prime consideration was ensuring that the historical aesthetics of the 144 year old building were preserved. In addressing these concerns, DIB's solution consultants proposed a unique solution; after analysing the ambient daytime light levels of the church and the reflective

qualities of the interior walls, DIB suggested using the church's interior walls for projecting video and images.

### A GRAND VISION

To fill the church with vision and light, DIB AV selected EPSON's powerful EB-L1300UNL high performance projector complete with WUXGA FULL HD resolution and 8,000 ANSI lumens of brightness. The laser projector provided more than enough power to tackle the tricky ambient light and pale reflected walls. The projector was mounted high on a wall at the rear of the church to hide it from view. Due to the long distance from the projector to the wall to be used as the projection screen, EPSON's standard middle throw zoom lens (G7000/Laser) was paired with the projector to bridge the gap. DIB also manufactured and installed a custom shelf to house the projector out of harm's way.

### SIMPLIFIED CONTROL

To make the system accessible by multiple users, DIB selected an Extron 7" touchscreen control panel. The panel was wall mounted

and an easy-to-navigate main screen was developed. The simplified design gives general users access to commonly used functions - such as on/off, audio levels, input selector - in one to three touches of the screen. Advanced functions were shifted to an advanced menu page. The touchscreen panel was paired with an Extron IPL Pro S3 processor which supports full IP control and 3 x RS232 serial ports for system configuration and control. A power control panel was also installed to power up the system in the correct sequence, avoiding unwanted pops and noises. Users are able to activate the system with a press of a button on the control panel.



**Extron 7" touchscreen control panel.**

### ALSO INSIDE THIS ISSUE



**Modern classrooms for Presbyterian Ladies College**

2

**Promethean ActivPanel Element Series designed by teachers for teachers**

3



**New connected classrooms for MacKillop College**

4

**Howzat! Easy-to-use AV solution for sporting clubs**

6



**Council AV upgrade gets vote of approval**

7

**Tips to manage cables and power/data points**

8

# Modern classrooms in days, not months

**With an educational heritage stretching back more than 140 years, Presbyterian Ladies' College Melbourne has a proud tradition of inspiring girls to embrace life's opportunities.**

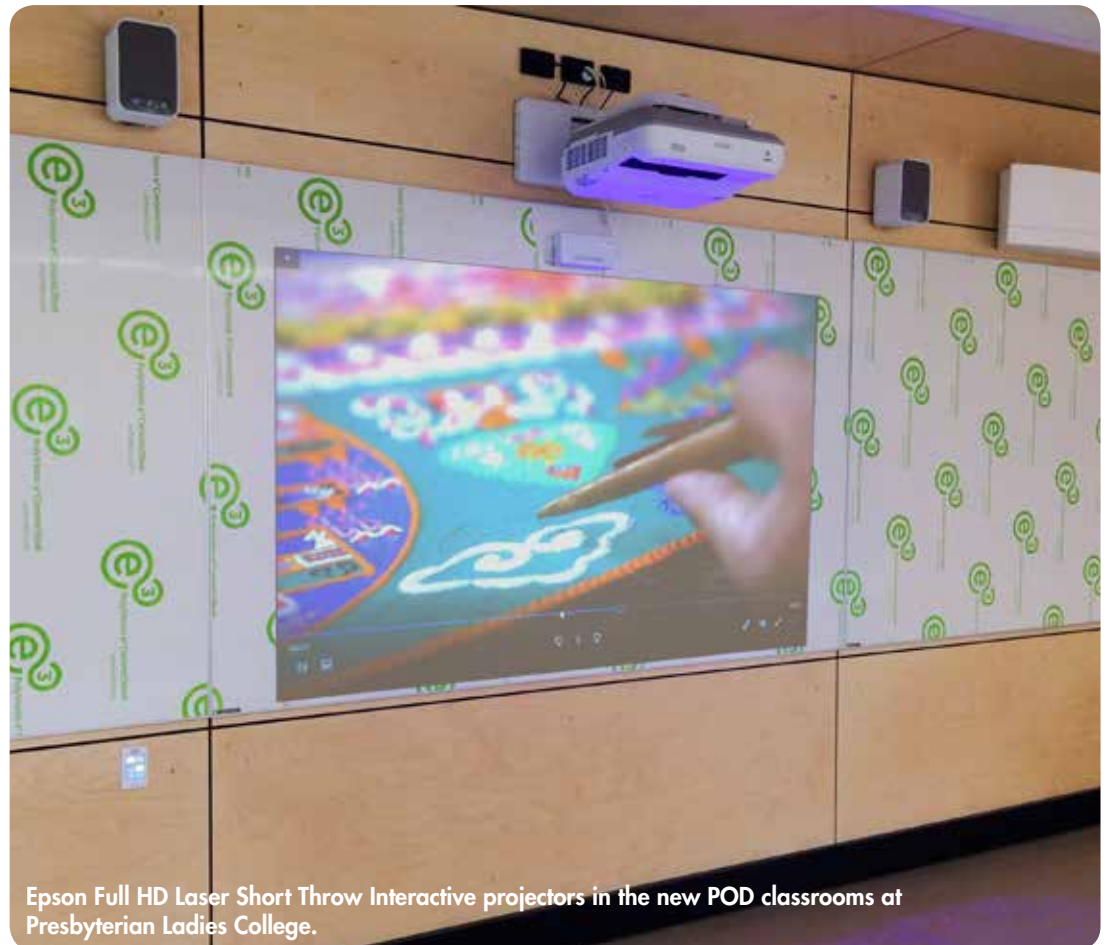
Long established in the Melbourne suburb of Burwood, the College is an Independent girls' school that aims to instil in the girls a lifelong love of learning. Students are encouraged to embrace their learning journey, become critical thinkers and problem-solvers and prepare for their place in the modern world.

In recent years, the College has undergone a comprehensive transformation that has seen the development of a state-of-the-art new Performing Arts Centre; a new Learning Resource Centre, a new library; a new Year 7 Centre, a new hockey and tennis facility, the complete redevelopment of the College's Science Precinct and the total transformation of the Years 7, 8 and 9, 10 and 11 classroom precincts. Their latest project is the redevelopment and expansion of the Year 12 Centre.

## TECHNOLOGY UPLIFT

Supporting this transformation has been the implementation of a comprehensive technology uplift program. The aim of the program has been to ensure that teachers and students could enter any classroom and be synchronised and comfortable with any technology. This meant adopting a common approach across the Junior and Senior schools.

The College has Epson Interactive Finger Touch Projectors as standard equipment in most classrooms,



Epson Full HD Laser Short Throw Interactive projectors in the new POD classrooms at Presbyterian Ladies College.

in tandem with Epson's Visualiser. The Visualiser is a document camera with a great zoom module (allowing for 12x optical zoom and 10x digital zoom) and a built-in microphone. This equipment can be used with some of the Visualiser's key functions such as live annotation, video recording with audio, image capturing and the time-lapse function.

DIB Audio Visual assisted with the initial specs for the AV upgrades, providing specialist technical knowledge. They also advised on additional technological innovations the College could include in each classroom upgrade. This allowed the College to establish the key classroom fundamentals whilst also capitalising on the latest technology.



Existing classroom upgrades included Epson Interactive Finger Touch Projectors as standard equipment.

This approach proved effective when the AV systems were upgraded with Epson's laser interactive projects. The benefits of these laser projectors, which offered quick start-ups, an ease of maintenance and increased performance, convinced the College they were the best option.

## NEW POD CLASSROOMS BENEFIT FROM EXPERIENCE

Recently, the College installed a number of portable "POD" classrooms. These state-of-the-art facilities were constructed off-site, transported to the College in modular pieces and positioned into place using a crane. This method of development is becoming

# Promethean ActivPanel designed by teachers, for teachers



Epson EB-710Ui Full HD Laser Short Throw Interactive projectors were installed in the new PODS, along with Epson's ELP-DC21 Visualiser document camera, and VIVI wireless presentation solution for collaboration.

increasingly popular for schools as they benefit from a swift turn-around and minimised disruptions to school operations.

In keeping the school's existing AV ecosystem, Epson EB-710Ui Full HD Laser Short Throw Interactive projectors were installed in the new PODS, along with Epson's ELP-DC21 Visualiser document camera, and VIVI wireless presentation solution for collaboration. An Extron MLC55 simplified 6 button control panel makes the system easier to navigate and

avoids the issue of complex and easily lost remote controls.

This wall-mounted 6 button panel provides an intuitive and simplified interface to the AV system. Users can access 80% of all system functions with a press of a button, resulting in reducing confusion and wasted time.



The Extron 6 button control panel simplifies operation in the new POD classrooms.



Promethean  
For the of Learning

Promethean is a global education company that designs and delivers a wide range of products and services for the education sector. For more than 20 years the company has been developing purpose-built products - designed by teachers for teachers.

Promethean is best known for its range of interactive display panels, the most recent of which is the ActivPanel Elements series, now available in Australia.

### TECHNOLOGICALLY INTELLIGENT

The ActivPanel Elements Series has 'plug and play' as standard, making it easier than ever to set up and manage classroom technology. Increased engagement is delivered via the powerful in-built Android 8 device providing access to intuitive pre-loaded apps and content – plus additional customised options greatly simplify IT management.

### INTUITIVE AND ERGONOMIC

A unified menu makes it simple, quick and easy to navigate to apps, content and resources by mapping the interface and icons to the teacher's natural eye line and

ergonomic usage. The menu places all of the most commonly-used tools right at teachers' fingertips. The ergonomically angled control console enables teachers to swiftly and intuitively navigate directly to the unified menu, volume, source selection and more.

### ENHANCED INTERACTIVITY

Teachers and students can collaborate with up to 20 simultaneous touch points including pen, touch, and palm erase.

### DEVICE MIRRORING

ActivPanel's controlled, multi-device mirroring lets teachers and students collaborate from anywhere in the classroom by connecting hand-held devices.

### AWARD WINNING SOFTWARE SOLUTIONS

ActivInspire - a collaborative lesson delivery software for interactive displays.

Class Flow - next-generation, cloud-based lesson-delivery.



# MacKillop installs connected and collaborative AV solution



MacKillop Catholic Regional College's new state-of-the-art Learning Centre with 86" Phillips panel in place.

**MacKillop Catholic Regional College is a coeducational secondary college in Werribee, near Melbourne's western suburbs. Werribee is one of Melbourne's growth zones and MacKillop College, with more than 1,500 students enrolled, is one of the largest independent schools in the area.**

The school's vision is 'Celebrating all life, challenging all people, dreaming the new day'. In support of this vision, MacKillop provides students with a contemporary educational setting featuring state-of-the-art facilities and extensive grounds with dedicated sporting and recreational areas. This setting allows students to participate in learning processes and experiences, giving them the skills and knowledge to engage and take control of their future pathways.

MacKillop College believes that technology plays a significant role in supporting these contemporary educational settings. The school's use of technology enables a more collaborative model of student and teacher interaction, where higher forms of thinking can be supported.

To this end, MacKillop College worked with DIB in installing the latest in educational technology for multiple locations in a newly constructed education facility.

## INTERACTIVE CLASSROOMS

To drive the College's AV ecosystem across 12 new classrooms, DIB installed the Epson EB-685Wi interactive projector. This projector brings true interactivity to the classroom by allowing users to engage with

the projections using either their fingers or the projector's special pens. For users, this projector is hassle-free to set up, featuring self-calibration and no additional driver installations. The projector also features 3,500 ANSI lumens of brightness, creating bright and vivid images - important for interactive use.

To support the projector's existing 16W built-in speakers, DIB installed a 30W speaker system. With two 15W speakers, this system can carry noise-free audio throughout the entire classroom.



Epson Ultra Short Throw Interactive Projectors were installed through out the new classrooms.



Hitachi LED Touchscreens were installed in meeting rooms throughout the new centre.

The new projector system features many connectivity options, from an external USB wall plate to the projector's own HDMI/VGA inputs, as well as the option for wireless use, via the projector's advanced networking capabilities.

Two additional classrooms received the Full HD DiscoveryLab camera system. This system consists of two Full HD camera's, one at the rear of the room with a view for the capture of the presenter and the second at the front of the room, capturing an audience/

student view. DIB also designed and installed a custom recording system rack which has the ability to save all recordings direct to the users personal USB memory stick in a very efficient MP4 format. The recordings can be saved in three formats; personal development mode, lecture mode or presentation mode. These three modes capture the relevant viewpoints of either the teacher, students or screen paired with the relevant audio. Two very discreet, high-quality boundary microphones were also installed to pick up the accompanying sound of the

digital or live presentation. A Sennheiser Lapel system SK100 + ME4 microphone was also installed to capture the lecturer's voice clearly.

The system confidence monitor (preview monitor) is used to display a live copy of the images that the classroom capture system is recording. So when the user changes the system from PD mode to Lecture mode they will see the preview screen change accordingly. DIB also installed a simplified wall control panel to easily operate the whole system.

**EPSON**<sup>®</sup>

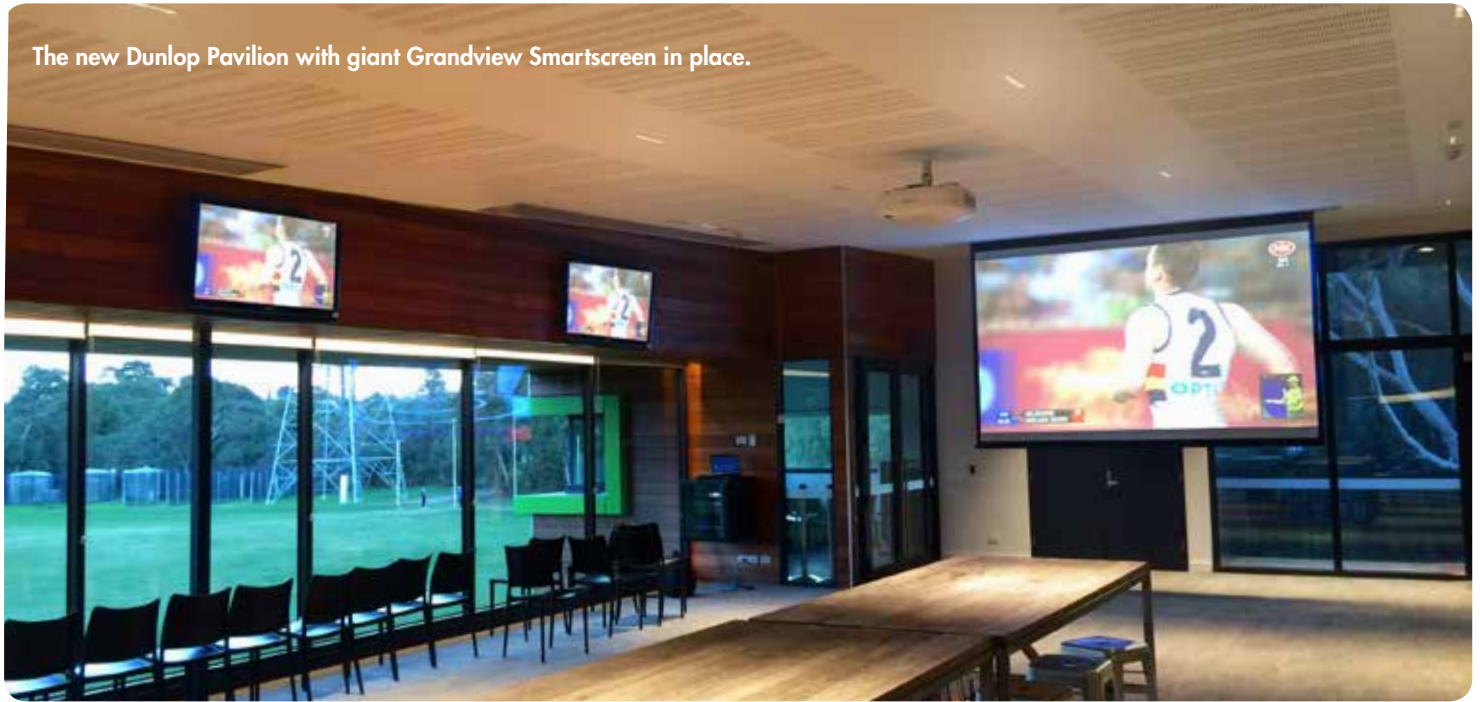
**Epson Platinum  
Premium Partner**

Being an Epson  
Platinum Premium  
Partner, DIB  
AudioVisual enjoys  
exclusive access to  
special partner only  
resources, service  
and support not  
available to most  
other suppliers.

A simplified Joey 6 wall control panel makes AV operation easy.



The new Dunlop Pavilion with giant Grandview Smartscreen in place.



# Howzat! Easy to use AV solution for Stonnington community clubs

The Dunlop Pavilion is a multi-use facility in East Malvern, Melbourne. The popular facility is owned by the City of Stonnington and is home to a number of local sporting clubs who combine to form the largest sporting club in the area.

The Pavilion features a function room used year round by the sporting clubs for social activities, by the Council for

events and is hired out for other community purposes.

A recent City of Stonnington redevelopment of the Pavilion included upgrades to the player change rooms, umpire change room, multi-purpose area, and added a new kiosk and public and spectator amenities.

Council appointed DIB Audiovisual to provide new audio-visual facilities in the pavilion, drawing

on DIB's long experience and expertise to design and install the right AV solution to meet the needs of the various users.

With many user requirements to cater to, the new system needed to be versatile, and simple to use.

## POWERFUL AND VERSATILE

The function room is dominated by floor to ceiling windows down one side - flooded with

light during the day and brightly lit at night. To cope with the varying light conditions, DIB AV chose the EPSON EB-G7200WNL WXGA 7,500 ANSI Projector and Short Throw Lens to suit the space. The projector's massive 7500 lumens of brightness and 3LCD 3-chip technology, guarantees images are incredibly bright and colourful, while ensuring content doesn't suffer in terms of clarity and readability.

The projector also caters to a broad range of connectivity - HDMI, Display Port, LAN, RCA, VGA, and RS232 control.

The projector was ceiling mounted via a high quality one-metre Skyhook projector ceiling bracket. The Skyhook conceals the cabling with other cabling routed in the ceiling cavity to achieve a tidy, professional look.

The Grandview Smartscreen is a huge 3.2 metres x 2 metres.



## A BIG ROOM NEEDS A BIG SCREEN

Dominating the function room is the motorised Grandview SmartScreen. A giant 3.2 metres x 2 metres, the screen is the perfect partner for the Epson projector and provides exceptional viewing from anywhere in the room. To keep things as simple as possible, operation of the screen is integrated with the AV system control system.

## USER-FRIENDLY WITH ONE TOUCH

Again with ease of use in mind, DIB Audiovisual installed a Joey Micro control panel.

User-friendly control panels like the Joey make it simple for users to control their AV systems. The Joey Micro takes the most used functions of the system and assigns them to easy-to-use buttons on the central controller.

## EASY LISTENING

DIB Audiovisual also installed an ICON Audio control panel to provide simplified control of the room's audio system. The panel controls the room's AMD200 Mixer amplifier, meaning users do not need to worry about adjusting critical audio settings or master levels. Users will only have access to what they need day to day.



A Joey Micro control panel was installed to make using the AV system as simple as possible.

# AV upgrade gets vote of approval



Hobson's Bay City Council Chambers with the new 3 metre Grandview motorised smart-screen.

Melbourne has many picturesque bayside locations providing residents a unique balance of big city living in idyllic waterfront surroundings. One of the prettiest is Hobsons Bay, about 10 kilometres west of central Melbourne.

The area's 96,000 residents are serviced by the Hobsons Bay City Council, which provides a range of services to the local community.

The Council's ICT team approached DIB AudioVisual to upgrade Council's ageing audiovisual system used in the Council Chamber, where all important public Council

Meetings are held. The new system needed to ensure ease of access and better meet the needs of Councillors, staff and residents.

## A GRAND VIEW

At the heart of the upgraded system is Epson's versatile EB-G7500UNL multimedia projector. The projector provides crystal clear clarity thanks to 4K enhancement - ideal for presentations in the brightly lit Council Chamber. To maximise the superb 4k image quality of the Epson projector, DIB selected the Grandview Motorised Smart-Screen Projector Screen. Measuring 3 metres by 1.8 metres, the

Grandview's vast size ensures content is easily seen from anywhere in the Council Chamber. Being motorised it rolls up and out of the way at the touch of a button.

The upgrade also included a 1.9 metre confidence preview monitor, mounted on the opposite side of the chamber to the projector screen, allowing Councillors to see what was being presented on the main screen.

## BETTER COLLABORATION

An enriched collaboration capability was provided thanks to the installation of Airtame and Miracast wireless collaboration devices.

## EASY TO USE FUNCTIONS BUILT-IN

The DIB team ensured easy-to-use control of the new audiovisual system by designing and installing a full colour tabletop touchscreen controller. The Extron touchscreen allows users to choose the projector system, input to be displayed, as well as audio system control. When the projector system is selected the projector automatically turns on along with the confidence preview monitor. The controller can be set up to default to any of the most commonly used inputs with advanced functions accessed on the Advanced Menu page.

DIB AV builds absolute simplicity into its control systems, ensuring that 80% of the user requirement are accessible within 1 button press - with 3 button press as a maximum. Adding to the system's versatility is a wireless control function which allows for system control wirelessly via any Ipad device on the same network. This function allows users to control the AV system, inputs and audio system by mirroring the tabletop touchscreen controller, providing maximum versatility and ease of access.

# HOW TO MANAGE CABLES AND POWER/ DATA POINTS

**Effectively managing power/ data points, IT, voice, data and electrical cables in a work environment can be a challenge. There are a number of considerations but a good place to start is deciding if you simply want to hide your cables, or if you want to professionally manage them.**

When it comes to installing audiovisual equipment, hiding messy cables and power/data points can be accomplished in many ways. Cables can be hidden from view with inexpensive plastic covers or by cramming wires into cracks and crevices in the floor and walls. Power/data points can be placed low to the floor in the corners of the room. If you manage an office building, education facility, or any space with high traffic and multiple users, you should consider a more robust, refined and flexible power/data point and cable management solution.

## YOUR OPTIONS

If you are looking for a professional, organised and safer solution for placing your power/data points

and hiding cables, DIB Audiovisual can advise you on solutions available to you. We recommend three methods of cable management: overhead, in-wall, and under floor. Each of these methods get your cables and wires out of traffic areas where they may be a tripping or shock hazard to occupants.

## OVERHEAD

In overhead cable management, cable trays or raceways are installed which support wires in or near the ceiling. The cable trays are mounted using vertical and horizontal supports suspended from the walls or ceiling. While this is a useful and common solution, in some finished interior designs the trays and raceways can detract from the look and feel of the design. In these instances, DIB Audiovisual can place the cabling and power/data points in the ceiling, out of harm's way and out of view. Power/data points are located in the ceiling near AV equipment and cabling is routed through the ceiling cavity, out of reach and out of view.



## IN-WALL

AV and power cables hanging down walls from projectors and display screens to power/data points can spoil the look of a room. The solution is to route these cables behind the wall cavity. Where possible, this is DIB Audiovisuals preferred method of installation as it hides away messy cabling and avoids trip hazards.

## CABLE MANAGEMENT - FLOOR

Finally, under floor cable management provides a method of routing cables within the floor surface itself, which can then be finished off with

options like wood, tile or carpet. A modular, easy to install cable floor will help hide your cables by using integrated cable raceways.

## TALK TO OUR DESIGN CONSULTANTS

If you are considering a new build or installing audiovisual equipment into an existing space, our expert design consultants can advise you on the most appropriate and cost effective power/data point and cabling solution for you.

## STEPS TO LOG A SERVICE REQUEST (DIB Australia)

### STEP 1

Log on to [support.dibaustalia.com.au](http://support.dibaustalia.com.au)



### STEP 2

Click 'SUBMIT A REQUEST'

### STEP 3

Fill in fields. Making your description of the fault as clear and detailed as possible will reduce any potential delays. You can even upload photos of the fault to assist the support staff.

### STEP 4

Click 'SUBMIT' and a confirmation page will be displayed with a request # and your subject line. An email will also be sent to your inbox notifying you that your request has been received by the support staff.



### STEP 5

A support staff member will then make contact with you with a suggested date and time for a service technician to be onsite.

## CREATE AN ONLINE ACCOUNT

You can monitor all of your requests (especially useful for larger organisations) by creating an online account.

