

Mackillop steps into the future with DiscoveryLab™

Mackillop Catholic Regional College located in Werribee is a school which offers a broad and comprehensive curriculum for all their students. Seeking to educate in a variety of areas, technology is paramount to Mackillop in order to cater for a range of interests and skill levels. Seeking to update 12 of their classrooms Mackillop engaged DIB to design a technology update for their classrooms.

After consulting Mackillop College the DIB team chose the DiscoveryLab™ system to update and expand the school's edu-tech opportunities. The DiscoveryLab™ was placed in two of the 12 classroom updates. DiscoveryLab™ is an audio-visual capture system for the classroom. The system is controlled by the teacher and uses ultra-sensitive microphones and HD video cameras to record lessons. These recordings can be used for of personal development and training for teachers, and as a revision tool for students.

DIB installed the system which included full HD DiscoveryLab™ camera system, Sennheiser SK100 + ME4 lapel microphones and discrete super sensitive classroom microphone system to capture video and audio with ease in each classroom. DiscoveryLab™ also comes with a system confidence preview monitor which is installed on the wall above the control rack to ensure the teacher can see exactly which camera profile is recording. When the system is turned on it records straight onto a USB.

The system has 3 main recording modes, the first is for personal development, which simultaneously



records front and rear cameras to show perspectives of the students and the teacher. This allows for self-evaluation and review by fellow teachers to streamline performance reviews and give useful and constructive feedback in order to improve lessons. The second mode is lecture mode which records the VGA or HDMI input as well as recording the teacher so the students can see the screen content and the presenter together. This tool is useful for students for revising, understanding complex ideas or catching up on a missed class. The third mode simply records the front facing camera to capture the presenter and the AV display. These three recording options make the DiscoveryLab™ the perfect tech tool for both student and teacher use.

The DIB team installed EPSON EB-585Wi projector to compliment the DiscoveryLab™ system. This projector uses ultra-short-throw technology to create a crystal clear image which is unaffected by glare or shadows. The EPSON projector is also interactive and adds a new kinesthetic dimension to the classroom. Additionally, the projector has great connectivity

allowing students and teachers to easily connect and share information. A pair of EPSON 30W speakers were also installed to provide high-quality audio to enhance the system.

To control the system the Joey Lite wall panel was installed in the classrooms. This allows for easy control of the system and eliminates the risk of losing small remotes. The system commands volume options, on/off, recording mode and VGA/ HDMI input. The DIB team also installed inputs for USB, HDMI, VGA and audio to allow full coverage of connectivity.

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Camberwell Grammar's new chapel gains state-of-the-art AV system



New CGS Chapel featuring two Renkus-Heinz IC-16-R column speakers.

Camberwell Grammar School (CGS) is a leading boys school located in the beautiful Melbourne suburb of Canterbury. CGS prides itself on educating their young men with the latest technology available in order to develop fluency and adaptability with operating systems, which are constantly evolving. CGS have developed a sound relationship with DIB over the past 15 years in order to maintain and enhance their technology education systems and audio visual capabilities.



Custom built connectivity areas with design matching Italian stone walls

DIB Australia was invited by CGS to work with their architects and electrical engineers in order to design and develop an optimal av design focusing on simplicity and function for their brand new chapel, foyer and function room complex. The planning process started well before tender during

the design phase of the building and continued throughout construction as required. Through consulting with CGS over 3 years DIB developed a state-of-the-art functional and aesthetic operating system.

CHAPEL

The interior design of the chapel features the smooth installation of Italian stone, using a traditional material with a contemporary aesthetic. The DIB team paid particular attention to this visual styling and developed custom made audio-visual components in order to compliment the colour scheme and design. Most notably, the installation of two Renkus-Heinz IC-16-R column speakers, colour matched to the stone, overcame potential acoustic difficulties as they use digital beam steering technology. This means that the speakers which boast 72 audio elements coupled to separate amplifiers and DSP control, project sound that is directed evenly and not lost in the large dome ceiling. Additionally, ceiling speakers were installed so that the room can be used in any orientation style without compromising on sound clarity and volume.

To complement the audio system, two Sony Pro Bravia 65" 4K LED display screens were installed on Commbox (fully motorised) LCD trolley stands. These screens are easily connected with the audio system, are high quality and easily transportable.

DIB designed the chapel with four custom built connectivity areas. These were installed with care so that the facade of the box camouflages with the Italian stone walls. Each box contains a powerpoint, HDMI points, SDI input for camera connectivity, inputs for two microphones and ethernet inputs. These connectivity areas cover all the bases so no matter what direction the room is being used the students and staff will have no trouble in connecting their devices and presenting to the room.

The chapel's visual processing is controlled by a Kramer VS-62HA 4K core HDMI matrix hardware. Additionally, the audio is commanded by the Extron DMP 128. These systems provide fast processing of complex tasks. For user-friendly operation, DIB meticulously programmed the Extron 7" Touch Panel so that operation is clear and intuitive. The DIB team uses a multiple

design iteration process fully involving the customer to ensure the simplest interface possible is arrived at. The sleek touch panel easily controls the audio-visual set up in the chapel with the ability to merge the audio in the chapel, function room and foyer.

FUNCTION ROOM

The adjoining function room uses the same style set up, housing a Kramer VS-62HA 4K core HDMI matrix, Extron DMP 128 and Extron 7" Touch Panel. These core elements ensure easy, ergonomic use of the audio-visual equipment. Using consistent systems also ensures that the users are familiar with the software and can easily set-up and use both rooms technology facilities.

The new function room is a beautiful multi-purpose room constructed with a vista of the football oval and basketball court. The DIB team chose to



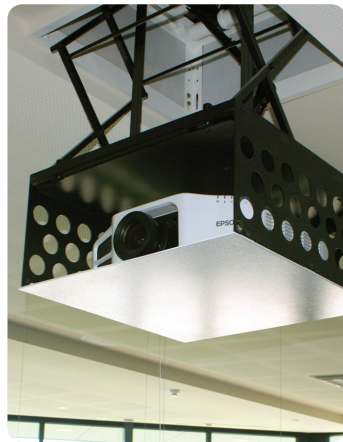


**Camberwell Grammar Function Room
featuring high tech AV equipment**

install an EPSON EB-G7400UNL 5500 ANSI, 1920 x 1200 + 4K Enhancement projector. This projector was selected due to its contemporary design, high brightness and ability to produce 4K Enhanced video quality. An accompanying Grandview Motorised SmartScreen 120" Projector Screen was also installed. To ensure the room can be used for any occasion the projector screen and projector unit are fully retractable, completely disappearing into the roof. The Extron 7" Touch Panel also controls the blinds in the function room so that making the room dark for presentations is an extremely simple and sleek process.

The function room also contains three Bose 502A Panaray® Speakers and three Freespace® 3 Series II speaker system subwoofers. This speaker system was mounted evenly across the front wall and produces concert-quality sound for the room. This speaker system is easily connected to the visual projector system or can be used on its own.

The chapel and the function room space with connected technology systems are also set up with equipment that can be shared. These include four Sennheiser EW 345 G3 MME865 handheld system microphones and two Sennheiser EW G3 bodypack systems with JAG



**EPSON EB-G7400UNL
5500 ANSI, 1920 x 1200 +
4K Enhancement projector**

IMX6 Headsets. These wireless microphones are installed for easy use and have the adaptability to be used in either room for a range of functions.

These rooms, designed in conjunction with DIB Australia, have high quality technological aesthetics and original design.

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EPSON brings in the New Year with NEW EB-695Wi Projector



EPSON is bringing in the new year with the brand new EB-695Wi projector. This new model builds upon EPSON's already highly advanced range of interactive projectors. It offers new features and enhanced capabilities for the classroom or the meeting room. The popularity and high demand of the new EPSON 600's range is a testimony to their projectors sophistication and ergonomic design.

The EPSON EB-695Wi projector boasts improvements from their last model, such as increased energy efficiency with the lamp hours now capable of 10000 hours in eco mode. It also has a significantly brighter display with 3500 lumens, making the projection even easier to see during daylight. This increased luminosity makes both whites and colours even brighter. Additionally, the significantly increased contrast ratio provides a dynamic colour spectrum and produces a clear image.

This ultra short throw projector has an HD-ready WXGA resolution which enables it to project large, clear images from a short distance with no interference from glare or shadows. With wireless connectivity and interactive touch, the EPSON EB-695Wi is the ultimate learning tool for any contemporary classroom or meeting room.

Please see the video online at <https://goo.gl/9BMhdA> for a rundown of the great features of the new interactive EB-600 series projector models.

For more information about Vivi or for assistance with your custom audio visual requirements, contact a DIB Audio Visual Solutions Consultant today. Phone (03) 9457-4800 or email us on info@dibaustalia.com.au.

For more information on this installation, please visit <https://goo.gl/9BMhdA> or scan the QR code.



Heathdale Christian College excels with brand new EPSON EB695-Wi



Heathdale Christian College is a K - 12 multi campus school, celebrating 35 years of educational experience. As teachers provide learning opportunities, they are able to observe and evaluate each student's need in order to nurture the development of his or her gifts and talents, which sees each student flourish. As part of their technology focus, Heathdale approached DIB Australia to update 12 of their classrooms with new audio visual systems.

The brand new EPSON EB-695Wi ultra-short throw projector was

selected to be put in each of these classrooms due to its top-of-the-range features and reliability. The EPSON EB695-Wi contains features such as high brightness and crystal clear image quality using Epson's 3LCD technology. This projector also has impeccable energy efficiency and is capable of running for 10 000 hours in eco mode.

The EPSON EB695-Wi projector allows content from external devices to be easily connected and displayed. The content can be moderated by the teacher and easily displayed from either student or teachers' devices. This encourages students to work both autonomously and in a team as they can work and share progress with their classmates. Further, the interactive screen is even more responsive than previous EPSON models. The projector has the capability to be quickly and easily controlled using finger touch and special interactive pens.

The DIB team also installed an input plate with VGA, HDMI, Audio and USB connections. This allows for connectivity with any style of device. Additionally,



DIB installed a separate Audio Only input so that teachers could use the audio function on its own without having to input audio through the projector.

The Extron MLC55 Simplified 6 button wall control panel was installed to control the audio-visual setup. This control panel is simple and effective featuring clearly labelled buttons to control volume and visual display.

The DIB team coordinated with Heathdale College in order to make sure that all the audio visual equipment was installed in user-friendly locations within their classrooms. Walking through the classrooms and

designing the system allowed for flawless installation and design that teachers and students are happy to use.

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Top: Audio only input.
Bottom: Input with HDMI, VGA, USB and Audio.





Commbox Classic Interactive 75" Full HD

Commbox Classic proves successful for room upgrades at Trinity Grammar School, Kew

Trinity Grammar School, Kew is one of the leading all-boys schools in Melbourne with a reputation for academic excellence. Their mission is to create an "innovative, progressive, responsive educational environment". This requires the school to update and maintain their modern audio visual equipment to keep up with the constantly improving world of educational technology.

DIB first started working with Trinity Grammar doing service repairs. After Trinity was very happy with their servicing results they invited DIB Australia to assist them in updating their six science rooms. These rooms were carefully designed and the Commbox Classic Interactive 75" Full HD was selected.

The Commbox Classic was selected as they are aesthetic, durable and reliable making them

the perfect interactive tool for any contemporary classroom. The Commbox can boast high definition, vivid bright colours and whites and combined infrared & camera technology for ultra fast and accurate touch response. DIB has a close working relationship with Commbox and trust both the brand and their innovative, reliable products.

A simplified Joey 6 Micro control panel was installed to simplify the operation of the Commbox screen. This wall panel provides intuitive control, allows for connectivity and eliminates the hassle of remotes which are easily lost.

The DIB team also installed HDMI and USB input plates to allow for connectivity across a wide range of devices to the Commbox Classic interactive panel. Additionally, to complement the sophisticated Commbox system DIB installed a pair of Australian Monitor 20 watt powered stereo

speakers. These speakers are powerful, easily filling a classroom with sound and are energy efficient, going on standby mode when not in use.

After the completion of the upgrade Trinity Grammar was very happy with the design of the upgrade, quality of the products and service that the DIB team provided.

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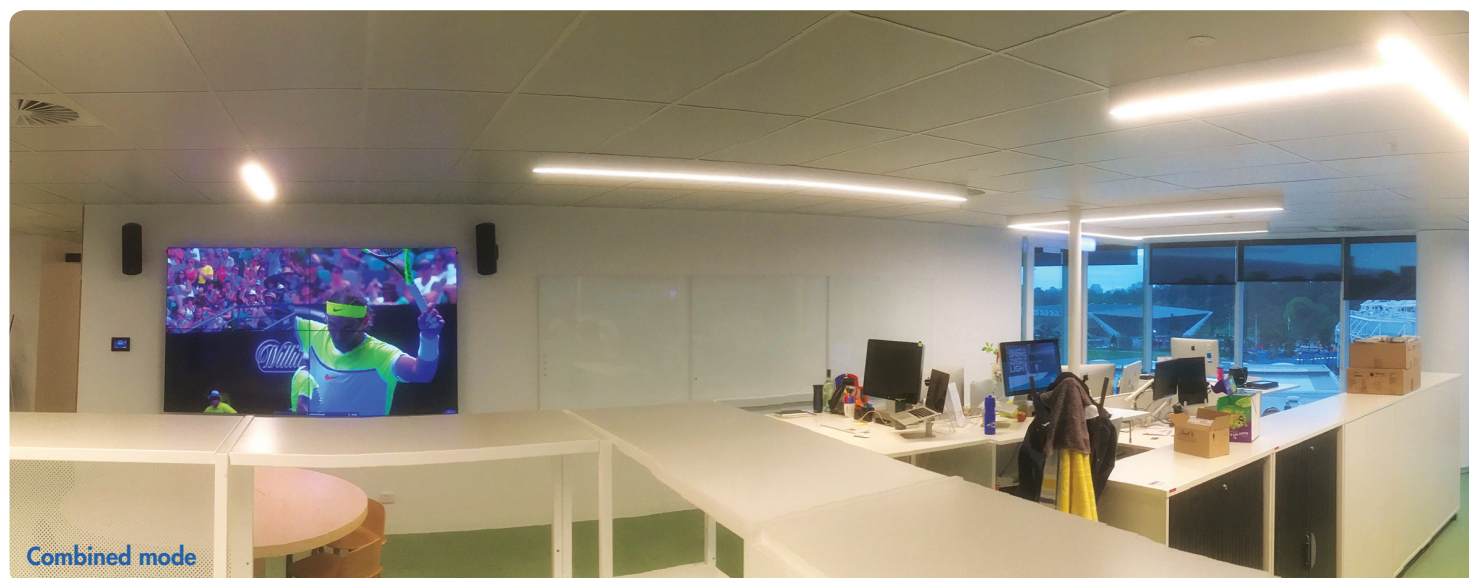
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Joey 6 Micro control panel



Professional Video Wall at Tennis Australia



As part of stage 2 of the Melbourne Park Redevelopment, current client Tennis Australia engaged the DIB team for the installation of a video wall in their Media department. Primarily, the display was to be used for presentations and playback of recorded media.

The DIB team worked with Tennis Australia to design and install a video wall solution, complete with custom control panel to ensure flexible control over the system. The video wall consisted of four LG 55LV75A 55 inch screens in a 2x2 configuration. These displays are especially designed for use in a video wall setup. They have a super narrow bezel, which

means that the border around the edge of the screen is as thin as possible. When installed as a video wall, this results in barely any perceivable gap between the screens, allowing them to combine to a single impressive and seamless display.

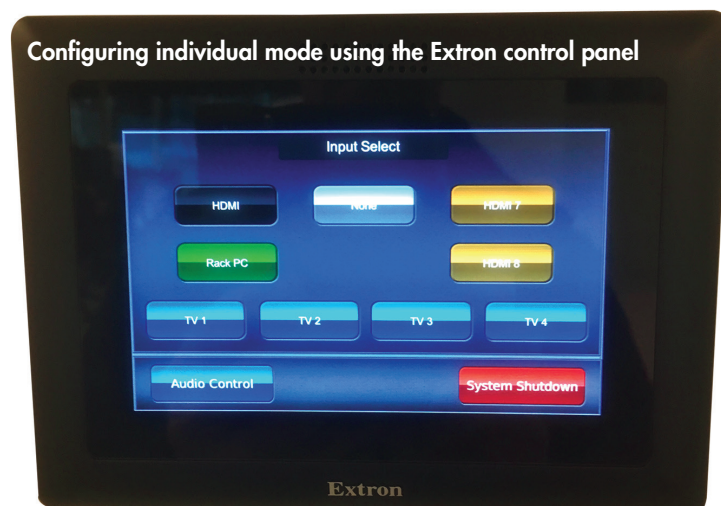
Video walls are a fantastic way of achieving a massive display without sacrificing image quality. Generally, it can be difficult and extremely expensive to have a large image while still providing sharp detail and vibrant colours. Video walls represent the best of both worlds by combining multiple smaller screens into a single large display which is stunning and crystal-clear. With the installation of a Kramer Matrix, the system was configured



with two modes of use - individual mode and combined mode. Combined mode allowed the video wall to display a single large picture while in individual mode it would display a single picture on each screen. For example, in individual mode three different TV channels and a laptop input could be displayed across the four screens.

wall via a local HDMI input, or by using a dedicated laptop installed in the AV rack. The video wall could also display Free to Air TV with the installation of four set top boxes (one for each screen) in the AV rack. Finally, two spare HDMI ports were also included near the dedicated PC to allow for future inputs.

Configuring individual mode using the Extron control panel



DIB wanted to make sure that staff had an easy way to operate the system. To achieve this, we installed an Extron TLP Pro 5 inch touch panel. This was custom designed to provide an intuitive touch interface. From the panel staff can simply switch between the two main display modes and choose from the many inputs.

If staff wanted to display video from their laptops or other devices they could connect to the video

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Dandenong North Primary gets interactive with iJunior

Dandenong North Primary School has served the community in quality education for over 140 years. Dandenong North Primary is committed to moulding their students to be «productive 21st-century citizens». To do this they are dedicated to providing the highest quality technological education. They engaged the DIB Australia team in order to give two of their primary classrooms a technology makeover.

The iJunior Interactive CommBox LCD 60" was selected as it offers a highly interactive and

engaging technology experience for young students. The iJunior Commbox panel is integrated into a comprehensive all-in-one education system. This simple touch screen is combined with a magnetic whiteboard, poster holder, bookshelf and storage space in one compact unit.

The iJunior is specifically designed to cater to the Primary School environment. The low height makes visibility and interaction perfect for young children with the system measuring just 550mm from the floor to the bottom of the screen. The system contained in one portable cupboard is

easily movable and perfect for a dynamic learning experience. The portability also allows the system to be shared between rooms. Dandenong Public had the iJunior installed previously in other classrooms and were so enthralled with the effectiveness and simplicity of the system that they have continued to install more.

Further, the LCD panel is perfect for classroom use due to the brightness of the iJunior screen. It is a High Definition LCD panel so it is not affected by shadows or glare and easy to use in sunny classrooms. The pair of speakers to compliment the HD panel is

built in so no additional space or installation is required in order to complete the audio-visual system.

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LCD VS PROJECTOR: WHICH IS BEST FOR THE CLASSROOM?

With many of DIB's clients when upgrading a classroom space or workplace training room we hear the question "Should I install an LCD panel or a projector?"

While there is no automatic answer, and each room is to be considered on a case-by-case basis, we will discuss a few key features below which we hope will help inform the right decision.

Traditionally, projectors were the dominant audio-visual choice for the classroom as they were much cheaper for a large size screen. While they were initially of a lower grade resolution than LCD's with problems such as disruptive shadows and low brightness a lot of these issues have been remedied. However, now with the price of LCD's dropping the choice between LCD and projector remains pertinent.

Currently, the most popular projectors installed are ultra-short-throw projectors which have large scale projection, interactive capabilities, full HD and lamp life lasting up to 10 000 hours. This

means the projectors have a better resolution, are unaffected by shadows and require less maintenance than previous projector models.

Most importantly, the use of projectors allows whiteboards to remain in place within the classroom. While it was assumed that whiteboards would be faded out of educational equipment the simplicity and reliability as a learning tool has remained steadfast. As they continue to be valued by teachers and students it is a distinct advantage that projectors can function concurrently with whiteboards.

Contrastingly, the latest LCD panels boast 4K resolution, which is 4 times finer than High Definition. This high resolution caters for the requirements of now and the future. This high quality provides vivid colours and bright whites and the panel remains completely unaffected by glare or shadows. Additionally, the LCD panel has more reliable and stable touch technology due to it's and the speed of interactivity is greater than the equivalent projector.

The LCD has very minimal maintenance with 50 000 hours of running time without any need of service or update. Moreover, the LCD panel has a sleek and modern finish which is preferable to many schools wishing to maintain a contemporary look in the classroom.

While the price of the LCD and projector is comparable at a 65" size, as the size increases the projectors become much more economical for a large size image. To compare the purchase and installation of a 90"-100" size image, a projector would approximately half the price of an LCD panel.

Due to the continued use of whiteboards and significant price difference at a large scale, the ultra-short-throw projectors remain superior at the intersection of value and performance and are suitable for most clients. White boards are a fast and easy tool for a teacher to work through a topic or idea with a class. There is no boot up time and they remain simple and usable by all. For this reason many rooms still want them front and center. Large LCD



displays cause white board space to be relocated and reduced. For these reasons and the other listed ultra short projectors can be the only product considered for classrooms. However, if the highest quality image is your main area of concern the LCD might be the one for you. DIB's consultants can take you through the pro's and con's of both technology's in greater detail as there are more issues than can be addressed in this brief article.

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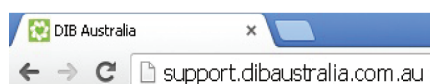
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STEPS TO LOG A SERVICE REQUEST (DIB Australia)

STEP 1

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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.

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