



# Newsletter

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## Narre Warren North Primary – Safe and Sound



TOP: Wall box houses the Joey Lite control panel, keeping it protected.

Narre Warren North Primary approached DIB Australia with the intention to install a projector system into their hall that encompassed two key elements; security and sound. The system comprised of an Epson EMP-821 projector; ceiling mounted far out of reach of students and projected onto a manual 120" pull down screen. A Joey Lite control panel was wall mounted and encased in a wall box for added protection. Next came audio reinforcement. With the hall used for aerobics classes, dance lessons and assemblies the decision was made to install XR10 powered

speakers. These provide high quality audio support with plenty of loudness, essentially giving a bit more grunt for those aerobics applications and other small productions. Also added was a MIPRO wireless microphone with UHF 16 Channel receiver; including a lapel belt pack style wireless transmitter for speaker use and an aerobics style waterproof headset mic ideal for high activity use. All in all the install incorporated elements of a standard Multi-Purpose install however it also managed to customise certain devices to best perform with what the area is used for.



ABOVE: Mipro UHF 16 channel receiver, automatically detects the best channel, providing clear reception every time

## Blackburn Primary Providing Students with a Place to Shine

Assistant Principal at Blackburn Primary, Peter Dyer approached DIB with the need to integrate a new projector with an already existing audio and projection system in the school's Multi-Purpose Area.

The Epson EMP-821 projector was chosen for the job and with the room often used for school plays and after-school care programs, it was decided that it needed to be ceiling mounted in order to be well out of reach of the young students. Accompanied by a Joey Lite control panel and integrated with an existing screen, the projector has already been

successfully used for school performances and plays with great results. Scenery is made to look more life-like particularly when a backdrop is placed on the screen. This is all due in part to the angled degree at which the projector is positioned – meaning that when children stand approximately 1.5 metres from the screen, shadows cannot be seen lurking on the screen; thus enabling the backdrop to come to life. For more information on ways you can improve or enhance your own Multi-Purpose Area please contact a DIB Solutions Consultant today.



BOTTOM RIGHT: AV wall cabinet housing the DVD/VCR combo player, along with a Joey Lite control panel that enables teachers easy projector operation at the touch of a button.



BOTTOM LEFT: Epson EMP-821 placed into a steel white security projection cage for the purpose of enclosing and protecting the projector.

ABOVE: Existing screen and speakers integrated with newly installed projector are all centred around the room's stage, with the projector angled to a degree that eliminates shadows being cast on the screen

### ALSO INSIDE THIS ISSUE...

FEATURE: AURORA OBSERVING THE FUTURE AT A GLANCE... 2-3  
NEW PRODUCTS: DVTEL KEEPING AN EYE ON THINGS.....3

HINTS AND TIPS .....4  
CONTACT US .....4

# Aurora Observing the Future at a Glance

Located in Blackburn South, Aurora is a purpose-built innovative specialist school that aims to maximise the achievement of deaf and deaf-blind children. DIB Australia was proud to assist the school in its endeavours to further enhance its quality educational programs by custom designing and installing a special audio and video monitoring solution into their Observation Room.

The room is utilised as a point in which the play and interaction between a parent and their deaf child can be monitored. With this in mind, Assistant Principal Bernadette Coleman worked with Solutions Consultant Sam Garden to design a system that was to be as economical as possible whilst not compromising the capabilities to perform the task at hand. The focal point of the system is centred around two high resolutions Samsung colour cameras which are mounted on pan and tilt allowing the operator to move the camera as required to establish the desired view. Each camera is equipped with 10x optical zoom which enables the operator to zoom in and get extreme close up shots. This is made particularly useful when trying to observe children's facial expressions, signs or gestures.

Additionally the cameras are fitted with high quality broadcast standard shotgun microphones with pan, tilt and zoom functions. These microphones are very directional and will pick up audio which emanates from the direction in which it is pointed. Therefore when the camera is pointed and directed wherever the child moves, the audio can be heard by the observer in the adjacent room.

Another feature that was also required by the school was the ability to record the sound and images that are captured. This is made possible via the use of a switcher and Panasonic HDD/DVD recorder. The switcher enables the user to simply choose which camera they are recording. The camera and sound images are then fed back to the recorder and can be recorded either locally or streamed to their DVC server.

The observation room at Aurora School is now a feature packed resource centre that is set to not only benefit the children and parents, but also the teaching staff. For more information on how you can customise an installation to suit your school's needs, please contact a Solutions Consultant today.



"Sometimes there are occasions when just getting the run-of-the mill installation is not enough and a custom installation is required"

ABOVE: 6RU rack that houses equipment including the switcher and Panasonic HDD/DVD recorder that is used by staff for local burning or further routing to the DVC Capture server.



FAR LEFT: The camera monitor displays the images transmitted by one of the two cameras

LEFT: The Samsung 480TVL high resolution colour cameras mounted on pan and tilt brackets are able to be moved by the operator to establish the desired view (as shown above). In addition, a Beyerdynamic shotgun microphone is positioned on top of the camera to capture audio sound at whichever way the camera is pointed"

RIGHT: Each camera can be individually controlled to either pan, tilt or zoom via remote controls (like the one pictured).



## DVTEL Keeping an Eye on Things



ABOVE: DVTEL control screen, showing multiple camera views.

DIB is proud to introduce to you the latest in IPVideo Security systems – DVTEL. DVTEL is the only open standards, IP-based security operations centre that unifies all your video, audio, data, access control and alarm management requirements into one command and control centre.

DVTEL brings together in one system simultaneous live monitoring from multiple stations. The system allows users to view live and recorded images on a PC monitor or an analogue CCTV monitor footage that can then be viewed and stored from one to thousands of cameras and monitor connections across an unlimited number of servers. It uniquely brings together and provides a digital replacement for all four primary legacy components – analogue camera and dome, matrix switch and multiplexer.

Access control (card/biometric), alarm monitoring, security automation, visitor logging, photo id badge creation, are amongst a vast range of features. And whilst traditional video management systems typically provide multiplexed or sequential views, the DVTEL Scene Tracker allows the area you are covering to be seen as the human eye intended it, with no limitation of a single camera view.

DVTEL's distributed architecture enables simultaneous live monitoring from multiple stations and storage both on and off premises. However, most importantly it allows you to provide sound security for your students, faculty and staff. For more information on the latest new product to be offered by DIB please contact us.



# HINTS 'N TIPS



## PROJECTOR BUYING TIPS – HOW TO GET THE MOST OUT OF YOUR PURCHASE

Projectors have fast become the centrepiece of classroom technology hubs that directly engage students and add impact to each lesson. Thus, the need to make sure you purchase the right projector for your classroom is a decision of significant importance. Below are a few tips to consider;

### BRIGHTNESS:

The brighter the projector the more capable the unit is when dealing with the presence of ambient light and/or producing a larger projected image. Keep in mind that brightness is NOT the only factor in determining picture quality. Other factors such as resolution and contrast ratio play a big part also. In general projectors that are rated more than 2000 ANSI lumens are recommended. Care should also be taken prior to purchase and installation, as not all brightness levels are reported equally by manufacturers.



### RESOLUTION:

Resolution is simply the number of pixels the projector uses to create the image. The more pixels it uses, the higher the resolution. SVGA and XGA are terms that describe common resolutions used by computers and projectors. All modern computers run XGA resolution or higher; thus making XGA the minimum resolution these days. Generally, SVGA is only really suited to video. Keep in mind that one of the key factors in choosing the right resolution is your typical application. For most classrooms the primary use for a projector is PowerPoint presentations, pie charts, graphs and excel spreadsheets, therefore XGA resolution projectors are perfect for this kind of work.

### WEIGHT:

If you are not looking for a portable solution – weight needn't be a factor. However, if the projector is likely to be moved around from room to room you will need a light projector. Anything less than 2.5kg is ideal for easy mobility by either staff or students.

### POWER ACTIVATION:

For the most part, projectors require a cool down period. Most modern units (and all in the Epson range) can have direct shutdown capabilities from power points. This is especially good in portable situations as users often don't have time to wait. Even in more permanent and installed situations this can work to protect against power outages.

### SOUND:

Sound is generally a secondary issue for many projectors and their built in speakers can be poor. Installing a projector into a classroom without additional sound support can limit the use and function of the room. E.g. video or DVD sound may be difficult to hear and can frustrate students and teachers alike. A range of solutions exist to ensure that sound reproduction is clear and enjoyable no matter what the presentation.

*For more information on projectors and their features contact a DIB Solutions Consultant today.*

## WANT MORE INFORMATION?

If there are any features or products that you wish to get more information about please tick the appropriate boxes below and fax this page along with either your email address or contact number. In addition, if you have any AV tips that you wish to submit for our next edition please fax them along also!

**Fax to (03) 9457 4801**

- Joey Control panels
- XR10 powered speakers
- Epson Projectors
- DVTEL
- Mipro wireless microphone
- Audio & Video monitoring solutions
- Other \_\_\_\_\_

### CONTACT DETAILS:

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