

# WorshipAVL

A/V | LIGHTING | SOUND REINFORCEMENT | RECORDING | STAGE SOUND | BROADCAST

July-August 2017

## MASSIVE SPACE, INTIMATE SOUND

Our Lady of Mount Carmel improves  
fidelity yet maintains solemnity

### CONGREGATIONAL LIGHTING

Creatively blending  
house and stage lighting

### HD PROJECTORS

What you need to  
know before you buy

### TAMING SOUND IN THE ROUND

Overcoming architectural  
challenges at St Paul's in Abu Dhabi

PROBLEM?

$$\delta = mc^2$$

where  $m = \mathbf{M}$  (processing) and  $c = \mathbf{C}$  (power) and  $\delta = ?$

PROBLEM SOLVED.

Delta 80 DSP Processing Power Amplifier



Delta 100 Network Audio Power Amplifier with @Dante

**MC<sup>2</sup>**  
AUDIO

#powermeetsprocessing



## Uniting technologies in Strathfield

**AUSTRALIA:** An A/V upgrade was recently completed at Strathfield Uniting Church in New South Wales. The new solutions were installed by The PA People and include an audio system with simple and event operating modes.



### The church computer feeds the video displays

The sound setup comprises a pair of JBL CBT70J-1 line array speakers with a white finish and two Bose DS 16SEW surface mount speakers. Control is via a Soundcraft EPM 12 analogue mixer and a Yamaha DCP4V4S wall mount control panel, while Shure BLX wireless microphone systems and two MX412/C goosenecks capture vocals.

The system's simple mode enables

the minister or anyone else speaking to turn the solution on with the press of a button, without the need of assistance from the technical team. This is used primarily for simple midweek congregational meetings. The event mode, meanwhile, is used for larger events, including full church services. In this mode, an operator will be present to manage signal levels for the speakers, as well as a band and for the video system, for which The PA People also provided three 84-inch Philips BDL8470EU UHD displays.

The three displays have been installed so that two face out towards the congregation, while the other is mounted on the rear wall, serving as a confidence-monitor for those on stage. The video system is fed material over Cat-6 cables using HDBaseT from the church computer. Also installed was an Ampetronic ILD500 hearing loop driver. This provides assisted sound reinforcement for those in the congregation with hearing aids.

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

[www.uca.org.au](http://www.uca.org.au)

## A simple solution

**USA:** Stonebridge Church of Omaha, Nebraska has opened a new campus in the neighbouring town of Fremont. The sanctuary is constructed in an A-frame design that is traditional of churches built in America during the mid 20th century. As such, it features plenty of reflective surfaces and wooden beams.

Mike Sessler from CCI Solutions was enlisted to design a sound solution for the sanctuary. 'It's a very beautiful space, but tough to get even coverage in terms of where to hang speakers,'

likes their low end, we have two CSX-Live 218 subwoofers flown over the front of the stage.

'It's quite remarkable because you can walk the rectangle which is twice as deep as it is wide from corner to corner in the seating area and it's totally covered,' Mr Sessler continues. 'The CDD-Live's asymmetrical coverage also worked in our favour. The horns are 110° wide in the nearfield and 60° in the far field and shaped so that the coverage is more rectangular than



he says. 'The whole room is all basically hard surfaces in terms of the walls and ceiling, with wooden-backed pews and no sound treatment. So, we had to cover the back wall extensively and add some treatment to the sides to keep the echoes down.'

Mr Sessler designed and installed a solution comprising two Martin Audio CDD-Live 12 loudspeakers and a pair of CSX-Live 218 subwoofers. 'The room is much longer than it is wide, but we were able cover the whole room very evenly with just two flown CDD-Live 12s,' he explains. 'The main is over the centre just beyond the stage and the delay about halfway back down the centre aisle. And because the church



### The two CDD-Live 12 loudspeakers were flown in the centre of the church

circular when you get to the edge of the coverage pattern. That's why we can cover the room very evenly with just two speakers.'

[www.ccisolutions.com](http://www.ccisolutions.com)

[www.martin-audio.com](http://www.martin-audio.com)

[www.sb.church](http://www.sb.church)

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