



**BOSE**

PROFESSIONAL

CASE STUDY - PLACES OF WORSHIP

CATHEDRAL PARISH OF ST MICHAEL & ST JOHN





## A TIMELESS CATHEDRAL WITH A VISION OF LONGEVITY

Established in the 1860s, the Cathedral of St Michael and St John in Bathurst is the second oldest Catholic Cathedral in Australia. Bishop of Bathurst, Michael McKenna, commissioned a 10-year-long restoration project to not only address structural concerns in the cathedral but to breathe new life into the whole precinct, with the goal of sustaining the Cathedral Parish for another 100 years.

## PROVIDING INTELLIGIBLE YET DISCREET AUDIO

The scope of the restoration project included a new audio system to better manage the Cathedral's range of liturgical requirements. The outgoing system had a loudspeaker array hanging from a wire above the main pews, which provided poor coverage and was visually obtrusive.

Clare Communications has worked with the Catholic Diocese of Bathurst for more than 30 years. The Cathedral called on Clare Communication's help to design the right audio system that would enhance the worship experience and ensure congregants enjoyed the best possible music and spoken word at every visit.

"For effective liturgy in this day and age, people need to be able to hear clearly, and they expect good sound," stated Father Paul Devitt, vicar general and dean at the Cathedral

Parish. "This is a very difficult building to create intelligible sound in because it's got so many nooks and crannies."

## BOSE PROFESSIONAL ENHANCES THE WORSHIP EXPERIENCE

The live acoustics of the Cathedral necessitated a loudspeaker solution that would focus sound onto the pews, avoiding the reflective surfaces of the walls, windows, floors, and ceiling angles.

"We chose the Bose Professional solution because it had been tried and tested in the Australian market. We're not very pioneering here — we're quite risk averse — so we went with a solution that we knew would work."

— Patrick Cooper  
Diocesan Financial Administrator

Clare Communications specified MSA12X steerable array loudspeakers. At the front of the Nave is a pair of three-module arrays in left and right locations, with another supporting dual-module pair further down the pews.

"The MSA12X modular loudspeakers gave us the capacity to steer the beam and focus the sound where it needed go,"



said Matt Donovan, project manager at Clare Communications.

In addition to the MSA12X loudspeakers, the solution also incorporated Bose Professional loudspeakers to support the main column arrays by providing sound reinforcement to the seating areas that adjoin the nave, as well as DesignMax DM6SE loudspeakers for exterior sound reinforcement.

Aesthetics are important, especially in an ornate cathedral, so mounting conspicuous audio reinforcement equipment in prominent sight lines was not an option. The loudspeakers are visually discreet. Even with an array with three modules stacked together, the MSA12X loudspeakers blend beautifully into the natural décor of the Cathedral's interior.

“The Bose Professional system we have here is not intrusive,” Cooper observed. “They actually look like they have always been there.”

### INTEGRATED DESIGN COMPLEMENT A SUPERIOR AUDIO EXPERIENCE

The upgraded audio solution supports the Cathedral Parish's desire for clarity of the spoken word and enjoyment of music.

Now, regardless of where a congregant is seated or whether it's members of the choir, each aspect of worship is clearer and more enjoyable than anyone originally thought possible.

Extremely pleased with the outcome, Father Devitt noted, “The Bose Professional loudspeakers are set up to point to certain areas, so we have got really good sound all throughout the Cathedral now. No matter where someone is sitting or standing, they get the same quality of sound. The system copes with soft voices, high voices, music, choirs — it's quite a brilliant setup.” ■

### SYSTEM COMPONENTS

**ControlSpace EX-1280** digital signal processor

**DesignMax DM6SE** loudspeaker

**MSA12X** steerable array loudspeaker

### PARTNER: **CLARE COMMUNICATIONS CO**



Clare Communications Co Pty Ltd is a company in NSW, Australia, specializing

in the field of communication systems, specifically the supply and installation of professional sound systems, public address systems, audio visual and lighting systems, automation/control systems, electronic bell systems, hearing impaired systems, and more.



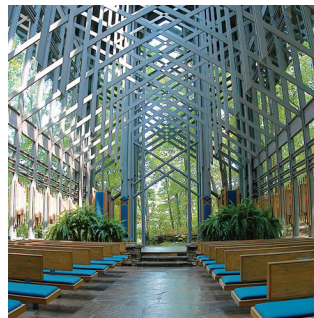
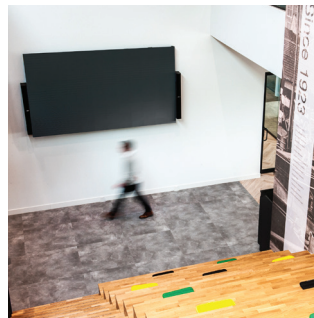
### **MSA12X**

The Bose Professional MSA12X is a self-powered digital beam-steering loudspeaker that enables improved room aesthetics, with outstanding vocal intelligibility and tonal consistency. The proprietary Articulated Array transducer configuration allows wide, 160° horizontal coverage throughout the room, and MSA12X's modular design allows building of vertical arrays using 1-3 units. Dante digital audio network interface comes standard for connection with other Dante-enabled products over Ethernet-based networks.



### **DESIGNMAX DM6SE**

With coaxial two-way drivers, the 125-watt DesignMax DM6SE loudspeaker offers rich lows and clear, intelligible highs — along with premium aesthetics that complement any commercial sound installation. The DM6SE features a 6.5-inch woofer and a 1.25-inch coaxial tweeter mounted within the Dispersion Alignment system, delivering a frequency range of 59 Hz - 20 kHz. The DM6SE is surface-mounted, IP55 outdoor-rated, and locks onto a hidden QuickHold U-bracket for fast, secure installation.



Bose Professional serves many different markets, delivering great sound in venues all around the world — performing arts centers, theaters, places of worship, stadiums, restaurants, schools, retail stores, hotels, and corporate buildings.

We know that our pro audio customers depend on us in a unique way. This is your business, your reputation, your livelihood — not just an amp, not just a loudspeaker. So, when you buy a Bose Professional product, you get the full weight of the global Bose Professional team behind you — our time, support, and attention. We see every purchase as the beginning of a partnership.



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