

Pro Apart Install creates luxe entertainment precinct at Southport Sharks

Executive Summary

Situated in the heart of the Gold Coast, Mantra on Sharks offers opulent, plush accommodation and corporate meeting rooms amongst countless dining and entertainment options in the Southport area. Prior to opening, hotel executives worked with David Walker from CoveMoon who, in consultation with Amber Technology, designed and implemented the audio plan for the Rooftop Bar, ground floor meeting rooms, VIP deck and reception area, transforming it into a world-class, multifunctional entertainment area. CoveMoon then went on to complete the installation of the project.

Project Objective

To design, install and commission an Audio Visual system for the Rooftop Bar, VIP deck, reception and ground floor meeting rooms in the new Mantra At Sharks hotel in Southport Queensland.

Requirements

The system needed to consist of an audio sound system with both background and foreground capabilities to provide general background music for patrons of the bar in the order of 75-80db SPL levels.

At certain times the sound system will be utilised by visiting bands/DJ's and will then be required to provide foreground music in the order of 85 – 100db SPL levels.

As well as the sound system, a TV Lounge has been incorporated into the design for both sporting presentations and classic movies. The audio sources from the TV Lounge will also be capable of being played throughout the bar for broadcast of AFL grand finals and other key events.

Solution

Design a sound system with the capability of operating in the range of 70 – 100db SPL levels with excellent frequency response, low noise and good clarity across the range, i.e. from background to foreground levels. Apart MASK8 speakers were chosen for their exceptional clarity and even frequency response plus the ability to reproduce high SPL's.

The original design was modelled in Ease Focus, a sound system modelling tool, using the supplied Apart speaker definition files. The modelled design gave the client a good understanding of the final system and proved to be very accurate.

Results

Rooftop Bar and Cinema Zone

This area now has an extensive audio system that is both a background and foreground music system. The system can deliver more than 105dbC SPL when required but in general will be used as a background system with SPL's in the range of 70 – 85dbC.

The area is divided into three (3) zones plus a designated Cinema zone (zone 4)



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Each zone is fitted out with Apart MASK8 full range speakers that are capable of 112db SPL and a frequency response of 50 – 25khz. The speakers are housed in a wooden cabinet and can accept 300W. Each zone consists of two channels.



Each zone is driven by an Apart REVAMP2600, a low impedance 2CH amplifier capable of 600W RMS per channel at 4ohms.

To support the MASK8 speakers, two (2) Apart sub-woofer units (SUB2400) have been deployed to provide a punch to the low frequency end of the spectrum. One of the subs can be switched between the Bar music system and the Cinema zone to add a low-end response to the TV sound system when movies are being displayed. These subs are driven by an Apart REVAMP2600, one sub per channel.

The cinema has been configured with a 75" UHD display and two column speakers that, as previously mentioned, can be supplemented with one of the sub-woofers.



VIP Deck

The VIP Deck is fitted out with apart column speakers, (5 x COLW41 & 2 x COLW81)

These are driven by a 4 Channel apart REVAMP 4120T) configured as follows

CH1+CH2 (Bridged) for the 2 x COLW81's set to 80W 100V
 CH3 2 x COLW41 set to 30W 100V
 CH4 3 x COLW41 set to 30W 100V



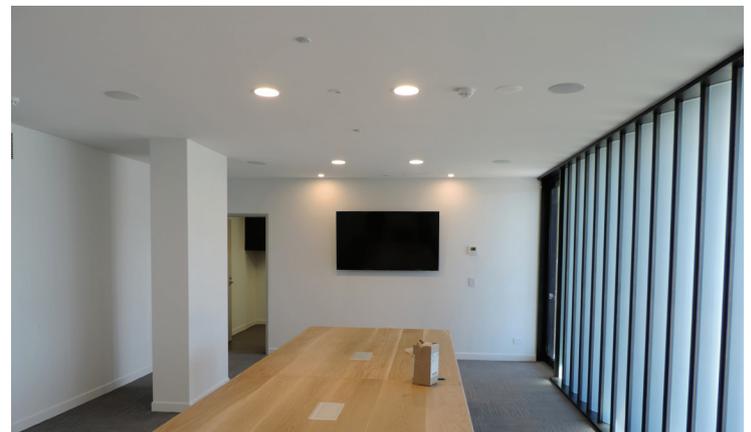
Ground floor Meeting Rooms

Two meeting rooms are available for both staff and external clients. These rooms are fitted out with 65" LED Displays and a sound system with ceiling speakers. (Apart CM20DT)

The large meeting room has six (6) ceiling speakers and the smaller room has four (4). These are divided into two channels per room.

The control of the meeting rooms is via an iPad with WIFI connection to the DSP.

The overall sound quality in this background music system is excellent with a clean response across the audio frequency range and negligible noise in the whole system. The Apart CM20DT ceiling speakers provide a clean response with a pleasant sound.



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Reception Area

The background music for hotel reception is also implemented in this design. The system is a ceiling speaker 100V line system

divided into four zones. The speakers are Apart CM20DT and CM4T with a total of twenty-eight (28) CM20DT's and five (5) CM4T.

These speakers are driven from an Apart REVAMP 4120T amplifier. The CM20DT are set to 10W 100V taps and the CM4T are 6W 100V tapped.

The system is run at low SPL, near 70dbC. It is capable of much higher levels if required and can easily provide 90dbC SPL.

The control for the reception system is also via an iPad with WIFI connection to the DSP.

All of the equipment for both the meeting rooms and the reception background music system are housed in a wall-mounted rack off the large meeting room.



A total of nine (9) Apart ceiling speakers are also installed in the below hallway with the speakers above the timber slats. Some speakers have been sprayed black to hide them from view.



Conclusion

The brief set out by Mantra on Sharks was met and exceeded with the use of Apart speakers and Electronics. The Apart MASK8F cabinet speaker proved to be the perfect fit to provide both background and foreground audio requested by the client on the Rooftop Bar. Apart's Columns, in-ceiling speakers and subwoofers provided the quality required in the Cinema, VIP Deck, meeting rooms and reception areas. A mix of class "D" REVAMP series power Amps from Apart provided the clean reliable power required.

The attention to detail by David Walker from CoveMoon ensured a professional installation and overall the Apart Audio Systems clarity and clean response was exceptional and excellent value for money.

Project Enquiries

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