



3D | Audio | Visual

Indian Ocean Marine Research Centre - IOMRC

Details about the project	
Organisation	University of Western Australia
Project Name	Indian Ocean Marine Research Centre - IOMRC
Project Location	University of Western Australia, Perth, Western Australia
Project completion date	November 2016

The Brief & the Solution

Indian Ocean Marine Research Centre - IOMRC

Situated on the grounds of The University of Western Australia, the Indian Oceans Marine Research Centre is home to marine research organisations committed to the conservation and the sustainable use of the Indian Ocean marine resources.

From the outset this project presented many challenges with the Audio Visual Design. Due to the varied tenants each space required careful consideration on each of the client's requirements whilst ensuring it would suit the University strategy. 3D Audio Visual worked closely with the UWA Audio Visual Department researching various products and technologies and one of those technologies was Wireless Presentation. Wireless would offer the flexibility required simplifying client connectivity and potentially reducing the infrastructure required.

Another of the AV challenges for this project was the COFS centrifuges and the requirement to monitor, broadcast and record images from each of the centrifuges and make them available to clients both nationally and internationally. Obtaining live images from a spinning beam in excess of 50 G and sending them live across the world would require some specialised equipment. Following many meetings familiarisation ourselves with COFS operations and requirements 3DAV recommended and demonstrated the Reach Media Centre which could not only record the required content in high definition but catalogue the vision in a dedicated media centre for live streaming, downloading and video on demand. 3DAV were also engaged to fitout the two main centrifuge control rooms as part of this project.

IOMRC project involved design, supply and installation of audio visual to 17 areas spread across 5 levels consisting of Digital Signage displays, Meeting Rooms, Board Rooms, Breakout Areas, Conference

Facilities, Control Rooms, Auditorium and the Woodside Innovation Hub.

Rooms

5 Small Meeting Rooms

Each meeting room consists of a 55" wall mounted LCD display, Wireless Presentation and keypad for control.

Although simple the Wireless Presentation technology allows up to four users to connect and collaborate content.



3 Video Conferencing Meeting Rooms

Located on Level 1, 2 & 3 are shared Video Conference meeting rooms with two 65" wall mounted LCD displays, Cisco Video Conferencing, HDMI and Wireless Presentation. Simple layouts on a desk mounted touch panel enable source selection and conferencing control. RMS monitors the room equipment reporting of usage and faults.

Level 5 Board Room

Located on Level 5 is the main board room and conferencing facility with two 130" projection screens and Cisco Speaker Track Video conferencing. The Cisco conferencing system has a unique dual-camera tracking system that allows participants in a video meeting to see the active speaker on the other end of a call in full view. Having the active speaker always appear in full view provides an optimum, like-life experience that can be better than being physically present. Presentation control is from a desk mounted touch panel and the facility includes RMS for equipment reporting for usage and faults. Accompanying the main boardroom is a breakout area with a wall mounted 65" display and ceiling speakers that can be used as board room overflow or for separate presentation.

COFS Control Rooms

The COFS control rooms house 4 wall mounted displays and recording devices connecting content from the centrifuge cameras and controlling pc's to the Reach Media Centre for streaming and recording. At the entrance of the control rooms digital signage screens show information about the current centrifuge operations.



Woodside Innovation Hub

Level 1 is home to the Woodside Innovation Hub. The Hub is an interactive space that features wireless presentation facilities, interactive telepresence and live video feeds from COFS simulators all displayed on a 8K by 2K video wall. Aesthetically you cannot see any of this technology other than the telepresence cameras and the Video Wall. Operationally control of the space is via a 10" iPad with simple intuitive layouts where you simply drag the picture onto the video wall to display.



Auditorium

The ground floor Auditorium scope detailed a flexible flat floor space with removable furniture that uses included events, product launches and teaching.

To achieve this flexibility the audio visual solution would need to adapt to the room usage without compromising on room functionality. It would also need to meet the University standard for a teaching facility incorporating the same teaching aids used on campus. The solution was again Wireless Presentation. This would allow flexible connectivity with the furniture removed and in lecture mode this would complement the added presentation aids.

Equipment includes High definition laser projectors connected to the AMX Enova DGX 100 Series video matrix, JBL sound and AMX control. The dual image displays can be separated for dual presentation and 65" displays in the foyer mimic each display for overflow. RMS monitors equipment usage and connectivity.



3DAV Management Team

AV Design and Technically Managed by **Ian Wornes**

Programmed by **Daniel Gavin**

Project Managed by **Jason Van Dyk**

Client Liaison by **Maree Wornes**

Logistics by **Colin Upson**

Administration by **Stacey Cullen**

The Design:

Consultation with UWA Audio Visual and clients providing designs, budgets, drawings, mark-ups and architectural layouts.

The products:

The products implemented were Universities preferred brands and technologies. *AMX, *JBL, Biamp Tesira, Cisco and Panasonic form the majority of the products implemented and are in-house serviced & supported by 3D Audio Visual.

*(AMX and JBL are part of the AVT Platinum Partner)

The programming

The programming and configurations in the IOMRC project involved programming and configuring over 150 devices including the latest in video wall processing connecting the 8k x 2k Woodside video wall.

3DAV completed the programming and commissioning ahead of schedule and all 150+ devices were online, reporting and operational.

The Ongoing Support:

3D Audio Visual continues to service and support the IOMRC facility providing assistance in facility operations, additional training and onsite support. 3DAV also have online remote access to the IOMRC facility allowing us to remotely identify faults if they arise and assist with room operations remotely controlling and configuring venues.

This support has already proven beneficial assisting with presentation setups whilst users become familiar with the technology.



Partners

AV Design – Ian Wornes @ 3D Audio Visual

Architects – Ferguson Architects

Builder – BGC Construction

Head Contractor – The University of Western Australia

AV Integrator – 3D Audio Visual