

## CASE STUDIES

## CHARLES DARWIN UNIVERSITY

## DANALA | EDUCATION AND COMMUNITY PRECINCT



## PROJECT SUMMARY

Charles Darwin University (CDU) envisioned a state-of-the-art Education and Community Precinct at Cavenagh Street, Darwin, Northern Territory. The new multi-story campus was designed to foster student engagement and collaboration by integrating cutting-edge technology across lecture rooms, meeting spaces, and communal areas.

## PROJECT REQUIREMENTS

The new construction required advanced Unified Communications (UC) technologies alongside comprehensive audiovisual (AV) solutions. The goal was to ensure a robust, future-ready infrastructure capable of supporting seamless communication, high-quality audio and video conferencing, and inclusive learning environments.

## THE SOLUTION

Audiovisual Projects (NT) secured the contract for this significant initiative, delivering a comprehensive solution featuring multiple Amber Technology brands. The proposal balanced exceptional functionality with cost-efficiency, meeting the University's high standards while adhering to budget constraints.

## IMPLEMENTATION DETAILS

## 1. Unified Communications and Video Conferencing:

- \* **Yamaha ADECIA RM-CG Ceiling Microphones:** Deployed across approximately 90 lecture and student spaces, these microphones deliver crystal-clear audio and unmatched coverage for video conferencing. The competitive pricing of the ADECIA RM-CG made it a standout choice, offering premium auditory performance within budget.
- \* **Aver CAM520PROADV PTZ Cameras:** Installed in ceiling-mounted configurations across more than 60 rooms, these cameras provide high-quality video for conferencing. Their exceptional value for money resonated with the University's decision-makers.
- \* **Aver VB 342+ Video Conferencing Bars:** Implemented in 30 huddle spaces, these bars combine quality and affordability, catering to smaller zones.

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#### 2. Document Cameras:

\* **Aver F17-8M Document Cameras:** Installed in 36 lecture and teaching spaces, these compact devices deliver 8MP resolution, enabling detailed content capture for enhanced student engagement.

#### 3. Hearing Augmentation:

\* **Williams AV WFT8D Wavecast Transmitters:** Five 8-channel transmitters were deployed to support a total of 40 audio channels for assisted learning. The system streams audio seamlessly through the University's Wi-Fi access points.

#### 4. Public Address System:

\* Levels 1 and 2 feature a six-zone public address system powered by **Australian Monitor IS4250P 4-channel Power Amplifiers** with Dante Expansion. These amplifiers drive **Australian Monitor QFC6CS coaxial speakers**, ensuring clear and even sound distribution across public and common areas.

\* Multi-purpose studios, galleries, seminar rooms, and large festival learning spaces utilize **Australian Monitor QF60CS and QF80CS Ceiling Speakers** for comprehensive audio distribution.

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### OUTCOME

The completed solution successfully met the University's requirements, providing a versatile and scalable AV and UC infrastructure. The design and installation by Audiovisual Projects overcame several challenges, delivering a system that integrates cutting-edge technology to enhance interaction and collaboration. Max Di Toro of Audiovisual Projects commented, "Our design and installation team did a great job, and despite some tricky challenges along the way, the audio-visual equipment proposed and installed, together with the brands supplied by Amber Technology meant that CDU was pleased with the outcomes. Without a doubt, the Charles Darwin University Education and Community Precinct is equipped with smart, cutting-edge technology, facilitating interaction and collaboration between students, teachers, and the community."

### Contact Information

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