

# Arab Open University

-Riyadh

## Case Study



### PROJECT OVERVIEW

- **Client and Location:** Arab Open University, Riyadh
- **Objective:** improving user interaction, Enhancing the Visual quality and providing better audio clarity

### ABOUT CUSTOMER

The Arab Open University (AOU) is a non-profit university founded on a personal initiative by Prince Talal bin Abdulaziz Al Saud, the Chairman of the AOU Board of Trustees. In December 2000, Kuwait was designated to

### CUSTOMER NEEDS

- AOU wants to enhance their Auditorium in Riyadh, Saudi Arabia, to make it modern, innovative, and automated for all purposes
- AOU assigned Data Core to lead a complete technological transformation to deploy advanced Audio and video interactive services in their auditorium infrastructure.



## PROJECT SCOPE

Demolish the existing traditional Auditorium setup, create a modern, innovative one with an advanced audio-video system, and set up video walls.

Deploy smooth operations using a customized UI application on an Apple iPad.

## CHALLENGES

Before the new system is deployed, the existing traditional AV system, which is outdated technology, must be dismantled quickly, the existing network must be taken care of, and the power must be routed appropriately. New cables must be pulled; accessing the ceilings and concrete floors is very hard. It is challenging to do these works while the university is open and classes are for students without any noise.

## SOLUTION

To ensure the audio-video system in the auditorium gets the visibility it deserves! We offer expertise in designing and programming from start to end and capture service to be professionally documented beyond what customers need. In the Auditorium facility, we provided a large Direct View LED (dLED)/Active LED Screen from AET Display Ltd, a Major manufacturer from China. It was 6 meters wide, 3.375 meters high, and 1.2mm pixel pitch micro-LED solution in a 4k resolution. For the switching of video system sources, we use a Crestron video matrix switch, and for audio, we use a Q-SYS digital signal processor. We used the seamless Q-SYS control system to integrate all pieces of equipment. A separate wireless system for the iPad and routed power communications was added in collaboration with the university electrical team. The project timeline was very short, and we managed to procure and deliver the materials on time to complete the project as agreed. Operational, maintaining, and cleaning procedure training is provided to end users or operators on how to use the system effectively. Finally, we exceeded the client's expectations. We promise scalability for future expansions and ease of maintenance. We offer control room furniture and wooden claddings for the video wall structures to match the existing interior. The Data Core maintenance team provides four quarterly maintenance visits to include a full service of all systems and service calls in case of an unforeseen system issue. The system has been successful since its installation in 2023.





## KEY SOLUTION COMPONENTS

- AET dLED Large Display
- Customized Architectural Table connectivity and floor boxes
- BYOD solution for Video conference and tracking
- SHURE Microphone solutions
- Crestron is switching through iPad with a user-friendly Interface with a Q-SYS control system and DSP.

## BENEFITS

Customers can feel the flexible BYOD meeting experiences with manual camera tracking and additional voice reinforcement distributed through discreet speakers. The USB connectivity enables Auditorium Presenters to connect their devices (laptops) to the environment from the stage and the control room and seamless operation of the Mouse, keyboard and laser presenter from both sides. This gives them full access to the large format display, room camera, microphones and speakers. The ability to use various UC platforms, such as Microsoft Teams and Zoom, seamlessly ensures that anyone can work with the systems they prefer without compromising presentation quality. Generous warranties and support services back up a low maintenance requirement.

## RESULT

We are proud to be able to provide AOU with such high-quality auditorium AV solutions. Data Core's solution is adaptable, simple, and welcoming to non-technical users.

