



CLIENT: CANTERBURY CHRIST CHURCH UNIVERSITY
PROJECT VALUE: £1.4M
DATE: DEC 2020

CCCU OPTS FOR AVOIP SYSTEM

Following its successful work on Building 1 in 2019, StriveAV returned to Canterbury Christ Church University, during the height of the COVID-19 pandemic to implement an innovative £1.4m AV-over-IP system in Building 2, as transformation of the city campus continues.

Based in Kent, Canterbury Christ Church University is undergoing an extensive, multi-year redevelopment, creating contemporary spaces for learning, teaching and research that combines new buildings and existing spaces across the UNESCO World Heritage Site campus.

Part of this £150 million investment is Building 2, which is home to science, technology, health, engineering and medicine courses.

PROJECT BACKGROUND

Canterbury Christ Church University's Building 2 project has seen the city campus transformed with a stunning new building featuring state-of-the-art facilities.

The £65 million building brings together engineers, scientists, doctors and healthcare students in an inspirational learning environment, with industry-standard, high-tech facilities on each of its three floors. It provides space for research, experimentation, industry collaboration and so much more.





PROJECT BRIEF

StriveAV's project brief was to implement an AV system employing the latest technologies to facilitate a new style of classroom learning.

StriveAV's design implementation of a new to market AV over IP system to sit on CCCU's existing network won approval from the client with project award in August 2020.

This design negated the need in most spaces for traditional video switching and allowed teaching spaces to be joined together with ease, transmitting video, audio, control and USB to other classrooms, and potentially other buildings, from a single teaching space.

PROJECT CHALLENGES

StriveAV's in-house infrastructure teams in conjunction with the technical project manager and systems integration team worked with the client to advise on the network infrastructure required for an AV over IP system.

However, the first challenge upon arriving on site was that the network cable schematics deployed by the project management team at Canterbury Christ Church University wasn't followed by the contractor, leaving all floor connection points fed from different network switch stacks to the wall connection points in any given room. With this implementation,

it would leave all multicast streams traversing the core, threatening a level of network degradation (due to required bandwidth) unacceptable by the university. With the aid of the university's and StriveAV's infrastructure teams, a design was implemented to create a multifloor sister stack to combat this issue.



PROJECT OUTCOMES

The new building opened in January 2021 and has already proved a valuable addition to the university estate. AV over IP technology has enabled Canterbury Christchurch University to maintain social distancing by using multiple classrooms to teach a single class of students, helping the university to continue to deliver the high-quality teaching and learning students expect, despite the challenges faced.



KIT LIST

- EXTRON CONTROL SYSTEM TO EVERY SPACE COMPRISING OF EITHER TOUCH PANEL OR PUSH BUTTON CONTROLLERS
- EXTRON AXI SERIES DANTE ENDPOINTS
- EXTRON 7" TOUCHSCREEN CONTROL PANEL
- EXTRON IPCP PRO RANGE OF CONTROLLERS
- EXTRON MLC PLUS RANGE OF PUSH BUTTON CONTROLLERS
- EXTRON DMP PLUS RANGE OF AUDIO DSP
- EXTRON DXP PLUS RANGE OF 4K VIDEO SWITCHING
- EXTRON IN180X RANGE OF 4K VIDEO SWITCHING
- EXTRON XPA U RANGE OF AUDIO AMPLIFIERS
- 58 X ZYPERUHD 4K AVOIP ENCODERS
- 146 X ZYPERUHD 4K AVOIP DECODERS
- ZYPER MANAGEMENT PLATFORM