

Cardiff University

INTRODUCTION

Cardiff University is an ambitious and innovative university located in Cardiff, Wales, UK. The 26 academic schools at the university are divided into three colleges: Arts, Humanities, and Social Sciences; Biomedical and Life Sciences; and Physical Sciences and Engineering. The University houses 7,500 students from more than 100 countries.

"CRESTRON ALLOWS CARDIFF
UNIVERSITY TO CONTINUE TO BUILD
ON OUR SUCCESSES. CRESTRON
TECHNOLOGY SUPPORTS THE DELIVERY
OF A UK-LEADING CURRICULUM
FOR LIFE SCIENCES' STUDENTS AND
SIGNIFICANTLY INCREASES THE CAPACITY
FOR BOTH UNDERGRADUATE AND
POSTGRADUATE TEACHING IN BIOINFORMATICS, COMPUTER MODELLING
BASED APPROACHES, AND DATA-DRIVEN
BIOLOGY."

Pete Dunsire

Senior AV/IT Project Manage Instructional, Cardiff University





THE CHALLENGE

Cardiff University recently increased its capacity for progressive and innovative teaching with the opening of a brand-new e-Learning and e-Assessment Facility (eLEAF). As eLEAF offers a relatively new teaching approach for Cardiff University, they wanted complete flexibility, as well as the ability to expand in the future. Pete Dunsire, Senior AV/IT Project Manager at Cardiff University had an idea of how eLEAF was going to operate, but wanted the system to be able to evolve based on feedback of both students and staff. An important additional requirement was ensuring the solution met the university's environmental standards.

THE SOLUTION

Since they have successfully worked together on several projects in the past, full-service AV integrator Reflex and Cardiff University teamed up to bring the eLEAF facility to life. The facility, consisting of 165 workstation computers and multifunctional zoning and sliding partition walls, accommodates a range of activities, from training and private study to small and large group teaching and practical classes integration to facilitate a better audio and video experience for the students outside the classroom, as well as a better in-room experience for faculty to control this new technology.

"CRESTRON'S TECHNOLOGY DOES
EVERYTHING WE ARE LOOKING FOR
AND CONTINUES TO IMPROVE THROUGH
UPDATES. IT IS FULLY SCALABLE AND
READY TO BE BUILT UPON WHEN WE ARE
READY."

Pete Dunsire

Senior AV/IT Project Manage Instructional, Cardiff University



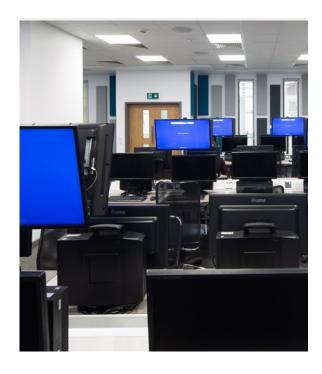
THE TECHNOLOGY

Given the advantages of an AV-over-IP approach for this project, and the extensive – and positive – experience Cardiff University has with Crestron technology, integrator Reflex suggested a system based on Crestron DM NVX° AV-over-IP. DM NVX offers users significant benefits in flexibility and simplicity over a traditional dedicated AV matrix solution. And since DM NVX can be installed by using the university's own structured cabling and data network, the installation was also greatly simplified, and the cost was kept to a minimum.

DM NVX encoder/decoders formed the basis of the AV distribution.

Crestron amplifiers and switchers were also used as part of the solution, along with Crestron touch screens and control processors to provide convenient control for the lecturer. Occupancy sensors are used to identify if the room is in use.

For configuration, control and management of the AV network, Cardiff
University implemented Crestron DM NVX Director™ virtual switching
applicance. The solution manages large networks of DM NVX devices,
routing AV signals, and simplifying integration with one or more Crestron
control systems. The DM NVX Director provides the virtual equivalent of
a hardware-based DM matrix switcher for easy central management.
The DM NVX Director virtually emulates the functionality of a traditional
hardware based DigitalMedia™ matrix switcher, routing high-quality
4K streaming AV signals throughout a room, building, or campus. It
effectively eliminates the need for a physical switcher, providing the virtual
equivalent running on the AV network.

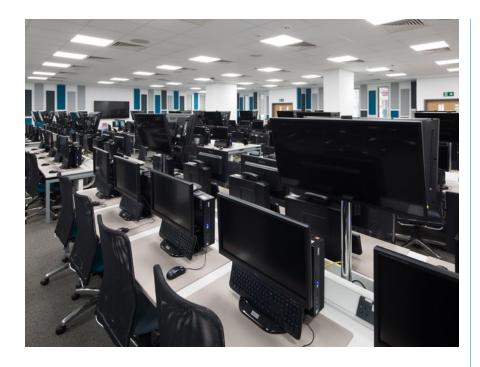


"OUR STAFF AND STUDENTS ARE EXTREMELY HAPPY WITH HOW INTUITIVE AND USER FRIENDLY THE TECHNOLOGY IS. THE AV/IT DEPARTMENT APPRECIATES THE FLEXIBILITY AND HOW EASILY IT CAN BE MANAGED AND DEPLOYED.."

Pete Dunsire

Senior AV/IT Project Manage Instructional, Cardiff University





RESULTS

The new facility represents a capital investment from Cardiff University and is indicative of its commitment to expanding opportunities for independent learning, progressive teaching, and cutting-edge research. The facility offers students and lecturers access to an interactive AV system, huddle working pods, multimedia communications, and imaging facilities, which increase opportunities for interactive teaching activities and enhance the overall student learning experience.

"IT IS VITAL THAT WE PROVIDE STUDENTS WITH OPPORTUNITIES TO VISUALISE, INTERACT AND ANALYSE THIS DATA, AND THE TECHNOLOGY HOUSED IN ELEAF WILL FACILITATE OUR TEACHING OF THESE NEW EMERGING AREAS OF BIOLOGY."

Pete Dunsire

Senior AV/IT Project Manage Instructional, Cardiff University

Featured Products

DM NVX° 4K60 4:4:4 HDR Network AV Encoder/Decoder
DM-NVX-350

DM NVX Director™ Virtual Switching
Appliance for 80 Endpoints
DM-XIO-DIR-80

7 in. Touch Screen TSW-760

3-Series® Control System CP3

4x1 4K HDMI° Switcher HD-MD4X1-4K-E

1-to-2 4K HDMI° Distribution Amplifier HD-DA2-4K-E

Dual-Technology Occupancy Sensor GLS-ODT-C-CN

Remote Temperature and Relative Humidity Sensor C2N-RTHS

