



## CASE STUDY:

# New AV solution ensures Blackpool Teaching Hospitals deliver high-quality education

## BACKGROUND

Blackpool Teaching Hospitals NHS Foundation Trust is a community healthcare provider located in Blackpool, Lancashire. As a teaching hospital, the Trust works closely

with local universities to provide continuous educational and training opportunities to both qualified medical professionals and students across a series of disciplines.

To ensure access to the latest developments and best practices across healthcare, the Education Centre plays a central role in all learning sessions, seminars, workshops, and meetings held by the Trust.

During a period of significant expansion at the Trust, key stakeholders identified a need to upgrade and modernise the technologies in the space. This strategic decision acted as a crucial step in helping to deliver the best training and development opportunities in the region, and ultimately enhance patient outcomes.

**NHS**  
**Blackpool Teaching Hospitals**  
NHS Foundation Trust

With the assistance of Pure AV, the Trust has successfully enhanced its technological capabilities and is now wellpositioned to deliver exceptional education and support for many years to come.

## THE SOLUTION

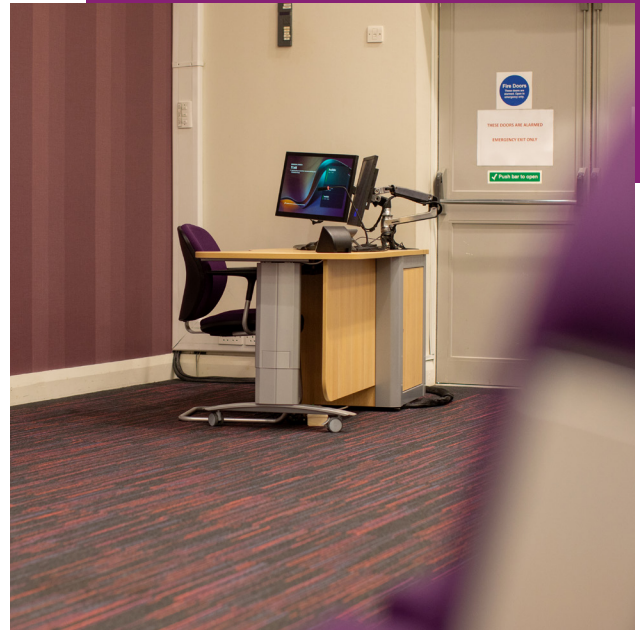
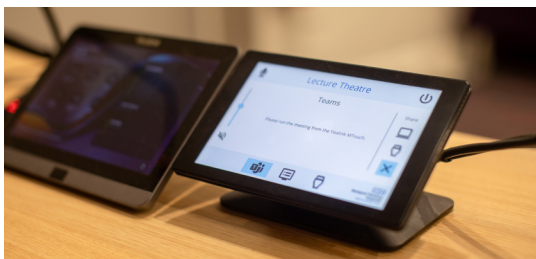
From the outset, a key requirement of this project was to successfully video-enable a large, open-plan lecture theatre with intuitive, user-friendly control.

In order to deliver the right solution for the client, a series of in-depth discussions took place between Trust stakeholders and Pure AV's technical specialists to fully understand all requirements, timescales and budgets.

During these discussions, it became apparent that the Trust was adopting a Microsoft Teams-first strategy. This information was crucial as it highlighted the necessity for the core equipment within the space to be certified for Microsoft Teams to ensure optimal performance, quality, and security in every session.

Upon gaining a clear understanding of the desired use-case, our in-house system design and programming team progressed with identifying and recommending the most suitable technologies and strategy to deliver the project.

Following an in-depth review of our proposed solution the Trust provided the green light to progress with our recommendations.



### Microsoft Teams Enabled Learning and Training

To maximise accessibility and facilitate both in-person and remote learning via Microsoft Teams, a range of certified for Microsoft Teams technologies are now found within the space.

At the front of lecture theatre, a wall-mounted, large format projection display sits firmly in place to ensure the highest quality images can be seen from anywhere in the room and to ensure an optimal experience for the audience.

A Yealink MVC940 dual camera system offers advanced video capabilities for seamless remote collaboration. With one camera focused on the presenter and another capturing audience, remote participants can experience a more organic learning and training experience. This setup ensures all participants feel connected and involved in the session, whether in the room or remote.

To further enhance the functionality of the in-room video system, a table-top Yealink meeting room controller allows for quick initiation, termination, and modification of Microsoft Teams-enabled sessions.



High-quality audio capture is provided by two Sennheiser TeamConnect Ceiling 2 microphones, which are flush mounted into the ceiling. The strategic placement of the microphones, along with the assistance of Sennheiser's TruVoiceLift technology allows for optimal sound pickup and re-distribution throughout the entire room via a series of Martin Audio ceiling speakers.

To further enhance the functionality of the space, a QSC core DSP has been carefully programmed and commissioned to provide optimal audio balance within the lecture theatre.

### Natural Room Control from a Central Location

Carefully positioned at the front of the lecture theatre stands a custom-made Qudra teaching table, fully integrated with state-of-the-art technologies to facilitate effective presentations and seamless content sharing.

On the table, two 24-inch confidence monitors are available to reassure the tutor that the correct content is being displayed to the audience.

A QSC touchpanel with a custom graphical user interface (GUI) provides an intuitively simple mechanism to control all technology and sources within the room.

To complete the teaching table, an Audio-Technica gooseneck microphone ensures high-quality audio capture while positioned at the teaching station.

The implementation of cutting-edge technologies at Blackpool Teaching Hospitals NHS Foundation Trust is a great example of how technology can be used to complement learning and development within an NHS setting.

By strategically adopting innovative solutions and working with Pure AV, the Trust has successfully enhanced capabilities for remote-based teamwork, collaboration, and training initiatives.

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Working with Pure AV has once again been a fantastic experience. Their team demonstrated professionalism and expertise from the initial consultation through to the final installation. They were always available to answer any questions we had throughout the process and I would highly recommend Pure AV to any Trust looking to enhance their audio visual systems.

**JULIE SUMMERS, UNDERGRADUATE MANAGER - EDUCATION CENTRE,  
BLACKPOOL TEACHING HOSPITALS NHS FOUNDATION**

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## ABOUT RICOH

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