smots™

Scotia Medical Observation and Training System

www.smots.org

case study

Simulation Centre, Field House.
Bradford Teaching Hospitals NHS Foundation Trust

smots™ case study

Scotia Medical Observation and Training System

Location

Simulation Centre. Field House. Bradford Royal Infirmary

Organisation

Bradford Teaching Hospitals NHS Foundation Trust

Number of Cameras

17

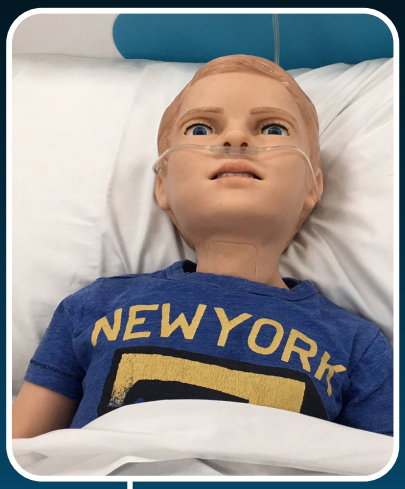
Mobile Fixed InSitu

Type of Studies

Wide range of simulation courses from specialities including Emergency Department, Undergraduate Training, Womens, Paediatrics & Anaesthesia.

Contact

Lee Metcalfe
Lead Education Technician



smots™ : What environments is smots™ is installed in?

Lee Metcalfe, Lead Education Technician

One resuscitation bay with a single bed space, which can also be adapted to function as a theatre space. In addition, there is a three-bed flexible ward area that can be configured to meet a wide range of training needs, utilising both patient actors and high-fidelity manikins to support realistic, scenario-based learning.

We also have a dedicated side room designed to replicate domestic environments, enabling simulation of community-based care such as home visits, as well as scenarios set in spaces like children's bedrooms.

Outside the simulation centre, we deliver in-situ training across a variety of clinical areas within the hospital. These include locations such as the CT scan control room, surgical wards, elderly care and the emergency department, helping to ensure highly contextual and authentic learning experiences.

"The process of working with smots™ has been consistently positive."

Lee Metcalfe,
Lead Education Technician

smots™ : Can you give us an overview of your system ?

Lee Metcalfe, Lead Education Technician

Our simulation centre is equipped with two primary simulation areas, both designed to provide high-quality, flexible learning environments. Each area includes a combination of fixed, ceiling-mounted and mobile 4K cameras, all supported by integrated microphones. We also have the capability to incorporate vital signs monitors and connect internal telephone systems, enabling us to create realistic and immersive clinical scenarios.

More recently, we have expanded our facilities to include a dedicated home setting/office environment. This addition has significantly enhanced the range of scenarios we can deliver, particularly those focused on community or communication-based care. The space is equipped with a fixed ceiling-mounted camera and a microphone array, which has notably improved audio clarity. This is especially beneficial for scenarios where conversations are more nuanced or delivered at a lower volume. To further enhance our audio capabilities, we have introduced four radio lapel microphones alongside a digital mixer. This setup offers greater flexibility in microphone placement and allows us to clearly capture and highlight key interactions between participants, enriching both the live experience and the quality of debriefing.

smots™ : Can you give us an overview of your system ?

Lee Metcalfe, Lead Education Technician (continued)

Many of our courses require us to operate in more confined or unconventional environments to achieve realistic viewpoints. For example, we frequently deliver simulation scenarios within ambulances, where space is limited. The smots™ Pack'n'Go system, combined with the "Gorilla" camera, has proven invaluable in these situations. This equipment allows us to position cameras effectively in tight spaces and, where appropriate, discreetly out of the learner's direct line of sight, helping to maintain immersion and authenticity within the scenario.

From an operational perspective, our team can live-stream footage from all cameras via the Control Centre software to multiple PCs. This provides the flexibility to support a wide range of session types and faculty requirements. We are also able to create customised viewing layouts, which is particularly useful for visiting faculty members and for delivering structured, high-quality debrief sessions.

What do you like about smots™ ?

Lee Metcalfe, Lead Education Technician

What we particularly value about smots™ is how intuitive and user-friendly the software is, making it easy for both new and experienced faculty to use with confidence. The user interface is easy to use and configure to individual course needs. The equipment itself is highly robust and reliable, which is essential in supporting the demands of a busy simulation environment. In addition, the support we receive from the smots™ team has been excellent.

They are consistently fast to respond, knowledgeable, and proactive in resolving any queries or issues, which gives us great confidence in the system and the ongoing partnership.

How has the process been for you ?

Lee Metcalfe, Lead Education Technician

The process of working with smots™ has been consistently positive. They have always collaborated closely with us to fully understand and meet our requirements, ensuring that the solutions provided are well tailored to our needs. We undertook a major upgrade of both hardware and software in April 2024, and the entire process ran very smoothly, from the initial scoping discussions through to installation. The team demonstrated strong organisation, clear communication, and minimal disruption to our day-to-day activities. Since then, we have expanded our system on two separate occasions by adding additional cameras and microphones. On both occasions, the process was straightforward and efficiently managed, reinforcing our confidence in both the product and the support provided.

On each occasion of upgrade, the team at Scotia UK worked closely with the Trust IT department to ensure the Trust infrastructure could fully support the changes. They consistently collaborated well to address any challenges that arose, working through issues together and providing appropriate solutions and work-arounds where needed.This joined-up approach helped ensure a smooth implementation process and minimised disruption, while maintaining system performance and reliability throughout.

"Throughout our partnership, they have remained highly reliable and continue to provide an excellent level of service."

Lee Metcalfe,
Lead Education Technician

Where there any surprises ?

Lee Metcalfe, Lead Education Technician

There were no real surprises during our experience with smots™, which is a reflection of their consistency as a long-standing supplier to the Trust. Throughout our partnership, they have remained highly reliable and continue to provide an excellent level of service.Their familiarity with our environment and requirements has meant that projects have run smoothly, with clear communication and dependable delivery at every stage.