



In Focus

Display walls in Public Sector & Control Facilities

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Platinum Client

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Our blue-light, public sector client is responsible for law enforcement in a major UK city. They extensively use public surveillance video as part of their duty to maintain public safety.

Our client carried out a comprehensive programme to modernise its command, control, communication and information systems. Part of this programme involved consolidating more than 30 monitoring facilities into three new centres. In addition, their main command and control room at their headquarters was replaced by installations at the new centres.

The Requirement

With access to thousands of CCTV feeds, our client needed to simultaneously display numerous video images as well as data and graphical information. A variety of audiences required access to the images including senior police officers, 999 dispatchers, other emergency services and our clients' own operational support staff. Each group

operated from different environments; ranging from cavernous operation rooms and command rooms to large monitoring suites.

As part of the modernisation programme, Cinos were asked to install display solutions in a range of different areas across the three new centres. The new displays had to integrate with existing video matrices and a new command and control system.



The video walls and supporting technology allow the operators and command teams to make more informed and better operational decisions.



The Solution

For the larger viewing areas, display walls were installed featuring Mitsubishi 50" DLP front access display cubes, known for their excellent image quality and proven reliability. Each Mitsubishi wall was mated with an Extron Quantum Elite Video Wall Image Processor, allowing images and data to be displayed simultaneously in varying sizes and layouts without compromising visual quality.

The largest wall of this type was installed at the North Centre and featured twenty-four displays, arranged in a 12x2 layout. The wall stretches over fourteen metres wide and nearly four metres high which ensured visibility was not an issue in such a large room. In the South Centre, four Mitsubishi walls were installed, including three in the Special Operations Room, thought to be the largest control room in Europe.

The Benefits

Cinos completed the upgrade on time and within budget, delivering improvements in four key areas:

Enhanced Capability

- Simultaneous display of hundreds of CCTV images across sixteen display walls at two sites.
- Image size and layouts configured for different viewing environments including Operations Rooms, Command Rooms and CCTV Monitoring Suites.

System Integration

- Display wall control integrated with command and control system.
- Data and graphics from networked devices can be displayed alongside video images, including maps and other graphical information.

During operations, overall responsibility falls upon senior officers located in the Command Suite which consists of four rooms; Gold and Silver command rooms and two additional tactical operation rooms. In these smaller rooms, Cinos installed display walls comprising of Eyevis 46" LCD panels in varying layouts depending on the room size. These displays are less than 20cm deep, making them perfect for smaller spaces.

The technical hub of each Centre is the CCTV Monitoring Suite; a separate area in which a team of support staff have access to incoming video feeds from helicopters, street cameras and mobile cameras. In the South Centre, one hundred 19" LCD screens were installed; split between two display walls; one a 2x40 horseshoe layout and the other a 2x10 straight

configuration. In the North Centre, sixty-four 19" displays are installed in a 16x4 layout. These walls were built to suit the size and space available.

The display walls can be controlled locally or centrally from the CCTV Monitoring Suites. Control equipment is located centrally and integrated with an advanced KVM system which allows any display wall to be controlled from any operator position on site. At both sites, the display walls are located some distance away from the central video matrix, with signal extension technology used to transport video and control signals over structured cabling.

The Technology

For an in-depth look at the technology we used on this project or to download the relevant data sheets please visit our website. You can also see the other projects we have been working on and catch up on any company news.



