

CASE STUDY

[Medical Monitor Solutions]

Worcestershire Royal Hospital, UK



“EIZO’s full medical solution has made the Administration of our PACS display hardware cost effective.”

Richard Szabranski
PACS Manager,
Worcestershire Royal NHS Trust

The Worcestershire Royal Hospital

The Worcestershire Royal Hospital opened in March 2002 having been built and equipped at a cost of £95 million under a Private Finance Initiative (PFI). The Hospital is part of Worcester Acute Hospitals Trust which also includes Alexandra Hospital, Redditch and Kidderminster Treatment Centre.

The new hospital replaced the ageing Worcester Royal Infirmary and provides a total of 550 patient beds. The Worcestershire Royal Hospital incorporates nine operating theatres, a large Accident and Emergency Department and Critical Care Unit, and specialist radiology and scanning facilities.



What was the Problem?

Richard Szabranski, PACS (Picture Archiving and Communications System) Manager at the Royal Worcester explains the problem, “We recognised there was a need for high quality diagnostic monitors for reporting radiological images within Radiology, coupled with a requirement of monitors able to view medical images at a high standard across all departments within each of our hospitals and Trust.”

“In addition, due to the sheer size of the Worcester Acute Hospitals Trust, with numerous locations and users, we identified a potential difficulty which PACS Managers may experience when managing a process of Quality Control (QC) ; making sure all users adhere to the regulations set by the hospital. We required a procedure applied to our monitors which would fully concentrate on QC across all departments to ensure that image quality did not deteriorate. This procedure needed to include all chosen clinical review monitors as well as diagnostic monitors.”

The EIZO Solution

The solution was to install EIZO RadiForce diagnostic monitors within the radiology department and EIZO FlexScan M-Series clinical review monitors in the other departments within the hospital and around the Trust. RadiNET Pro QC software was chosen to manage the quality assurance of each of the hospitals monitors, both on site and remote based monitors allowing users to be safe in the knowledge that all of these monitors are connected to high performance QC software.



28 EIZO RadiForce G33 diagnostic monitors were purchased, along with a pair of RadiForce G51. 150 FlexScan M-Series S1910-M and S2100-M were purchased and were distributed within the hospitals PCT (Primary Care Trust*) network.

**Part of the NHS (National Health Service) responsible for the planning and securing of health services and improving the health of a local population. Healthcare organization outside the hospital, such as clinics and health centers are able to access the hospital PACS to view the medical images.*

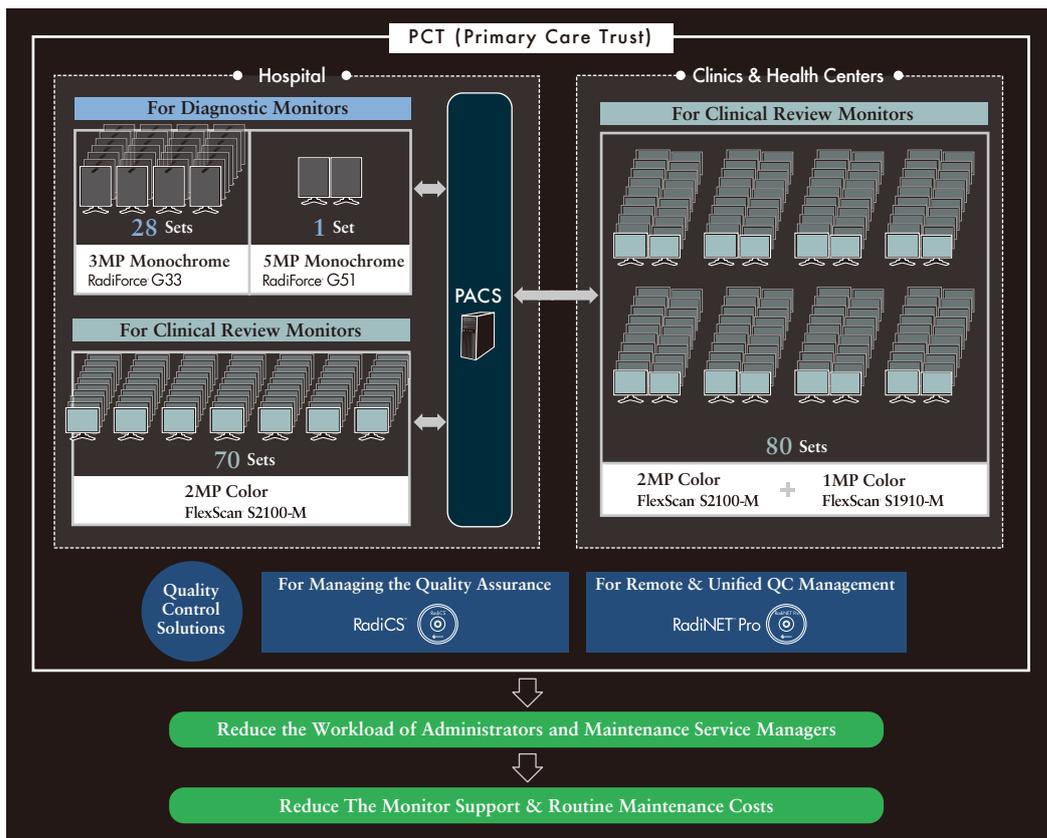


RadiForce G33 were chosen due to their extremely precise monochrome display capability and inbuilt calibration sensors within the enclosed panel. These sensors enable the RadiNET Pro software to remotely calibrate the screens, ensuring peace of mind for both consultant and patient. The calibration mode selection ensures correct tonal value allocation from a palette of 8,161 gray-scale tones, for the best possible image when reviewing X-rays.



The addition of the FlexScan M-Series range of clinical review monitors distributed across the whole hospital network with RadiNET Pro allowed the hospital to create QC test pattern checks on each display making sure that each screen was working efficiently 24 hours a day. RadiNET Pro enabled the unified QC management of multiple monitors used across various clinical departments within the hospital as well as reducing the workload of monitor administrators and maintenance service managers, thus dramatically reducing monitor support and routine maintenance costs.

At the time of purchasing, EIZO was the only monitor manufacturer which had the proven technology and solutions within other hospitals in other countries using both Diagnostic and Clinical Review Monitors and QC software, reinforcing their reliability and success around the world.



System Configuration

Today

Richard Szabranski concludes, “EIZO’s full medical solution fulfilled each of the hospitals’ displays needs and together with its software and calibration tools has made the Administration of our PACS display hardware cost effective. Indeed, we have identified that our expenditure on just calibration costs alone will decrease over time.”

“Our administrators are now able to track all networked monitors both onsite and remotely, observe usage hours, plan Quality Assurance, implement plans remotely and have all the benefits of being able to manage their assets from a single admin control point.”



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