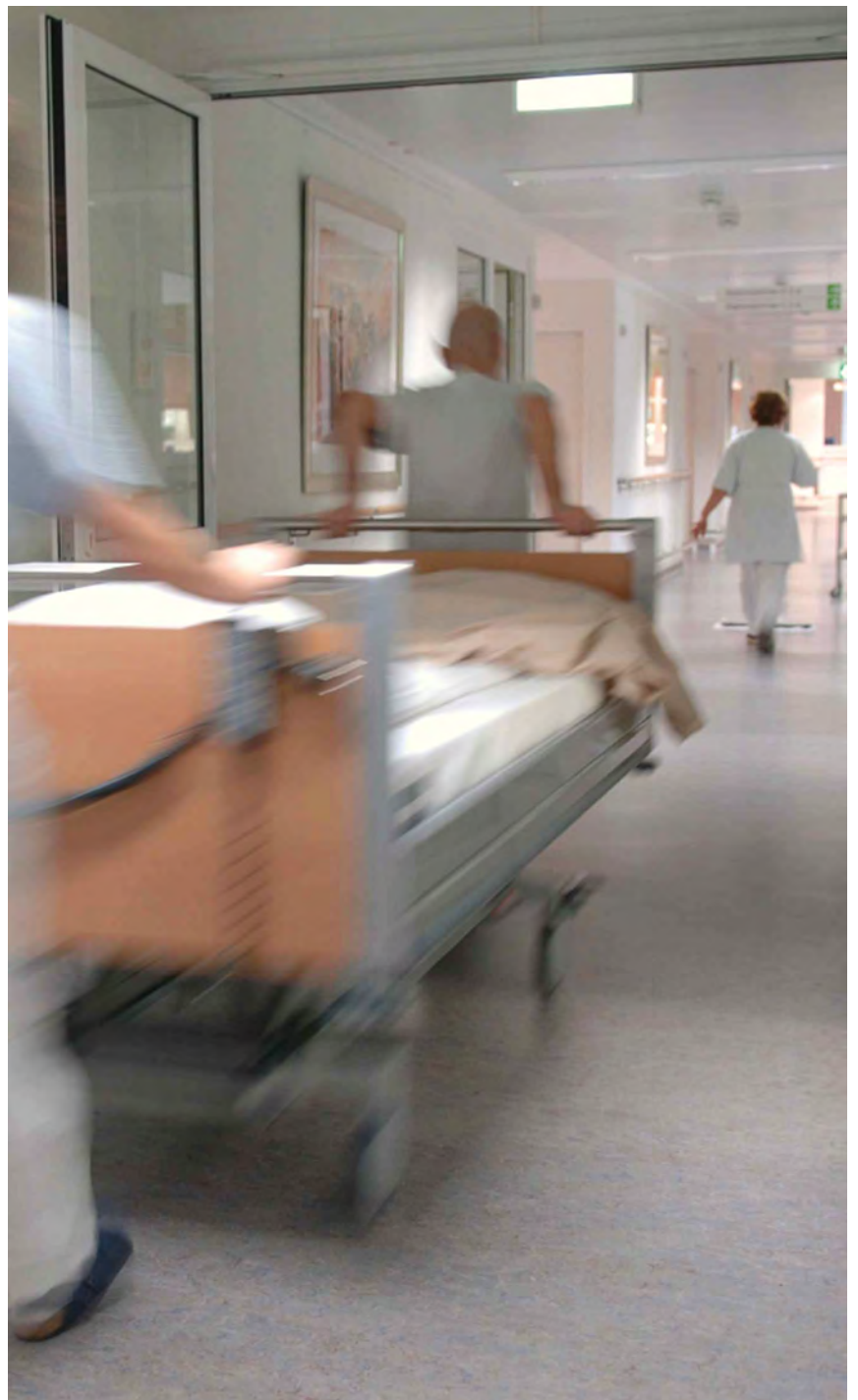


# GE Security fire detection protects UK hospital

Nottingham University Hospitals   
NHS Trust

## Queen's Medical Centre

Queen's Medical Centre campus is part of Nottingham University Hospitals Trust, the fourth largest teaching Trust in the UK and the largest combined teaching, research and treatment hospital in Europe. The Trust employs more than 12,000 people. QMC offers 964 beds for its patients. Acknowledged internationally as a centre of excellence in patient care, teaching and research, it provides a wide range of general and specialist services for everyone. The Queen's Medical Centre campus was the first purpose built teaching hospital in the UK. It is one of two main campuses, which make up the Nottingham University Hospitals NHS Trust and also includes the University of Nottingham's Medical School





### Pre-existing situation & GE Security's role

On such a large and complex site, fire protection for patients, visitors and employees was a critical requirement.

With thousands of people on site continuously - the fire detection and alarm facilities needed to provide pinpoint accuracy of the location of any potential fire condition.

Among the most important requirements of the project were system reliability in large scale projects, sophisticated alarm and evacuation management programmes and flexibility for remotely disabling any part of the sensing system for building maintenance purposes. In addition to local codes, the installation had to meet fully the UK hospital fire detection and alarm system standards.

As well as providing stand alone fire detection, the system needed to be fully interfaced with the hospital building management equipment.

### GE Security's Solution

In order to provide a fast reliable response to any fire condition in such an extensive building, GE Security installed a Ziton ZP3 system based on four ring networks all connected by a central communications loop.

A total of 94 control panels supported by 150 remote display units cover the entire hospital and control over 35,000 sensing devices, each individually interrogated by the control system every two seconds. Also carried on the main wiring loops are over 10,000 alarm sounders and 5,000 other addressable devices.

The detection system is controlled from five Maestro alarm management and graphic display stations, where fire and fault conditions can be located and tracked on a series of building maps - providing full information down to the level of any individual sensor. Service programmes are organised from system information provided on a sensor by sensor basis, listing only the devices entering the near maintenance condition, before sensitivity is affected.