

# The FIRST High Definition, Low Radiation CT Scanner in London at The Princess Grace Hospital

The extensive diagnostic imaging facilities at The Princess Grace Hospital have been enhanced further with the installation of the first High Definition, Low Radiation Dose CT Scanner in London.

## Key advantages

- High Definition capability with vastly improved spatial resolution by up to 47%
- Up to 50% reduction in patient radiation dose

The Princess Grace Hospital is a private acute care hospital with 100 beds situated in the heart of London's medical district. The Princess Grace Hospital covers more than 50 specialties and treatments, has an intensive care unit and a Level 3 emergency treatment centre.

For more information please contact

Anne Fitzpatrick on **020 7908 2020** or email [anne.fitzpatrick@hcahealthcare.co.uk](mailto:anne.fitzpatrick@hcahealthcare.co.uk)

To arrange a viewing or make a CT appointment please call **020 7908 2007**

[www.theprincessgracehospital.co.uk](http://www.theprincessgracehospital.co.uk)



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THE PRINCESS GRACE HOSPITAL  
THE LISTER HOSPITAL  
CHESHAM

The Wellington Hospital

The Portland Hospital  
for Women and Children

London Bridge Hospital

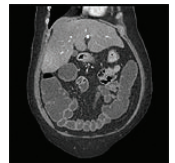
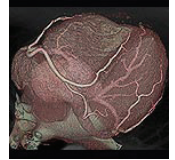
HCA - London's No.1 private hospital group

 THE  
**PRINCESS GRACE**  
HOSPITAL

## High Definition

The Discovery CT750 HD is the world's first high definition CT scanner. It will set the new standard for CT clarity, delivering the vision and the tools to allow clinicians to diagnose quickly and confidently. Increased Image Quality at lower doses and new CT growth applications give you new insights and helps you to diagnose with greater speed and confidence.

At its heart is the first new detector material in 20 years; one that is, quite literally, a gem. GE engineers discovered that, by changing the molecular structure of real garnets, they could develop a scintillator 100 times faster than existing CT scintillators, enabling up to 33% improved spatial resolution throughout the body and up to 47% improved spatial resolution in the heart.



## Dose Reduction

In short, it brings faster, clearer images into today's demanding health care environment without sacrificing the element patients and clinicians demand most: radiation dose reduction. Though the laws of physics typically demand an increase in dose for each increase in image quality, GE Healthcare has engineered an exception. CT750 HD improves image quality while reducing dose by up to 50% across the entire body and by as much as 83% for cardiac scans. In addition to the new Volara DAS which uses hardware to reduce dose and improve IQ by reducing noise and software denoising filters and additional bow tie filters GE are the 1st to introduce the ASIR reconstruction which lowers noise so that you can lower patient dose by up to 50% and maintain the same image quality and improve low contrast detectability by up to 40%.

In addition to providing fine detail, CT750 HD's improved spatial resolution allows it to reduce calcium blooming artifacts. Because of this, accurate stenosis quantification is possible. This is secured claims substantiation. While true this is not supposed to be public information. It also benefits from improved low contrast detection (LCD), a measure of the amount of contrast needed to image a given object at a given dose. CT750 HD bench tested with a 40% LCD improvement.

