

## **Advanced Breast Cancer Diagnostics: University Hospital Erlangen Uses Spiral Breast CT**

New high-tech device combines excellent image quality with patient comfort – without the need for breast compression

- **University Hospital Erlangen (Universitätsklinikum Erlangen) uses high-tech breast imaging solution for the assessment of suspicious lesions and pre-operative planning (spiral breast CT “nu:view”)**
- **The dedicated breast CT allows for superimposition-free, fully isotropic 3D cross-sectional imaging and high patient comfort**

*With some 69,000 new cases in Germany per year, breast cancer is by far the most common type of cancer in women. Advanced diagnostic imaging solutions can support an early and individual therapy. As one of the first institutions worldwide, the Institute of Radiology at the University Hospital Erlangen uses a spiral breast CT for breast diagnostics. A technological milestone that allows the Academic Breast Centre Franconia, the university hospital’s special breast unit, to further improve its first-class interdisciplinary breast cancer patient care.*

### **Excellent image quality for complex requirements**

The new breast imaging modality allows for high-resolution, 3D imaging at low dose levels comparable to those of mammography. For the acquisition of the superimposition-free, fully isotropic 3D tomograms, nu:view uses a spiral CT acquisition concept combined with a state-of-the-art single photon counting detector.

The specialists at the University Hospital Erlangen rely on the breast CT’s excellent image quality to assess cases with suspected cancer in detail and for pre-operative surgery planning. The high resolution images make it possible to measure the volume of lesions. Prof. Dr. Rüdiger Schulz-Wendtland, senior physician at the Institute of Radiology at the University Hospital Erlangen: “This device allows us not only to make microcalcifications visible, but also to determine the three-dimensional volume of microcalcifications.” The professor points out that these volumetric images can provide an important function within the diagnostic toolset, and help to set the foundation for the next stages in breast cancer patient care, including the optimization of surgical interventions.

The university hospital's first experience with functional imaging for the depiction of soft tissue components are equally satisfying. At the breast CT's official inauguration in March, Prof. Dr. Evelyn Wenkel, senior physician at the Institute of Radiology in Erlangen, impressively demonstrated how contrast-enhanced breast CT can facilitate the differentiation between benign and malignant lesions and allow for a subtly nuanced depiction of multicentric tumours.

### **Patient-friendly, gentle examination procedure**

But it's not just the breakthrough technology nu:view impresses with: the examination by breast CT does not require any breast compression. For the image acquisition, the patient lies prone on the scanner table with the breast to be examined conveniently placed into the opening. The gantry will then rotate around the breast in a downwards-oriented spiral trajectory, creating up to 2,000 projection images in the course of a single 360° rotation. A full breast scan takes as little as 7 – 12 seconds, keeping dose levels low.

***Disclaimer:*** nu:view has received CE approval. nu:view has not yet received FDA approval.

*481 words/3,357 characters (incl. spaces)*

### ABOUT AB-CT – ADVANCED BREAST-CT GMBH

**AB-CT – Advanced Breast-CT GmbH** is a pioneering medical technology company specialising in quality diagnostic breast imaging. The dedicated breast CT system **nu:view** combines image quality, dose efficiency and patient comfort in a revolutionary way. Features include: real 3D imaging (360° angle), very high isotropic resolution, and excellent soft-tissue differentiation – all without the need for breast compression. AB-CT's vision is to deliver real value in patient care by empowering **radiologists** all over the world to reliably diagnose breast cancer at the earliest possible stage. AB-CT with headquarters in Erlangen (Germany) currently employs some 50 staff.

### PRESS CONTACT

+49 9131 97310 23  
[marketing@ab-ct.com](mailto:marketing@ab-ct.com)  
[www.ab-ct.com](http://www.ab-ct.com)

**AB-CT – Advanced Breast-CT GmbH**  
Henkestraße 91  
91052 Erlangen (Germany)