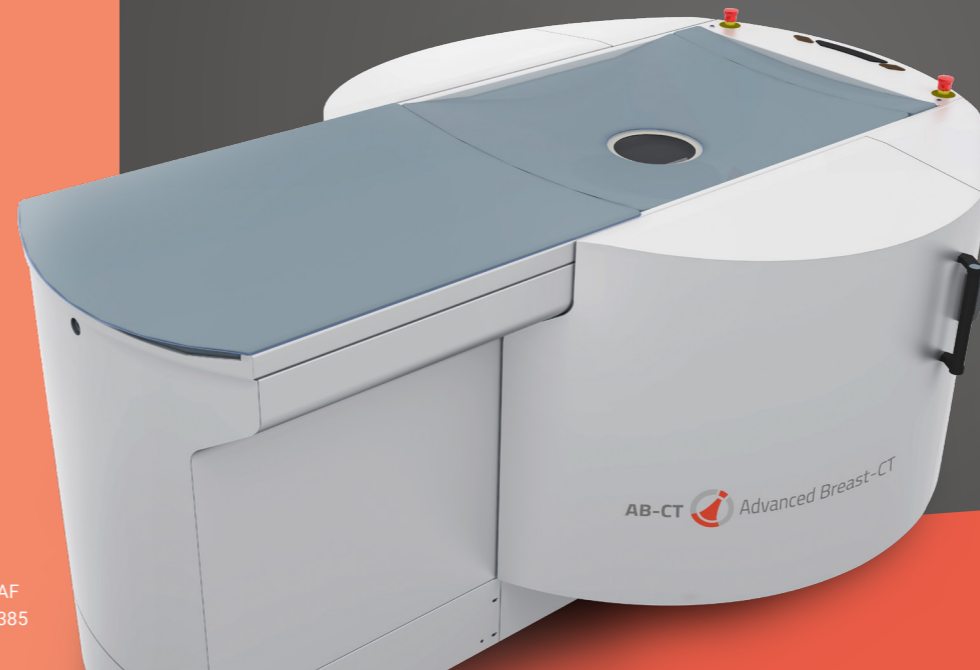



AB-CT  Advanced Breast-CT

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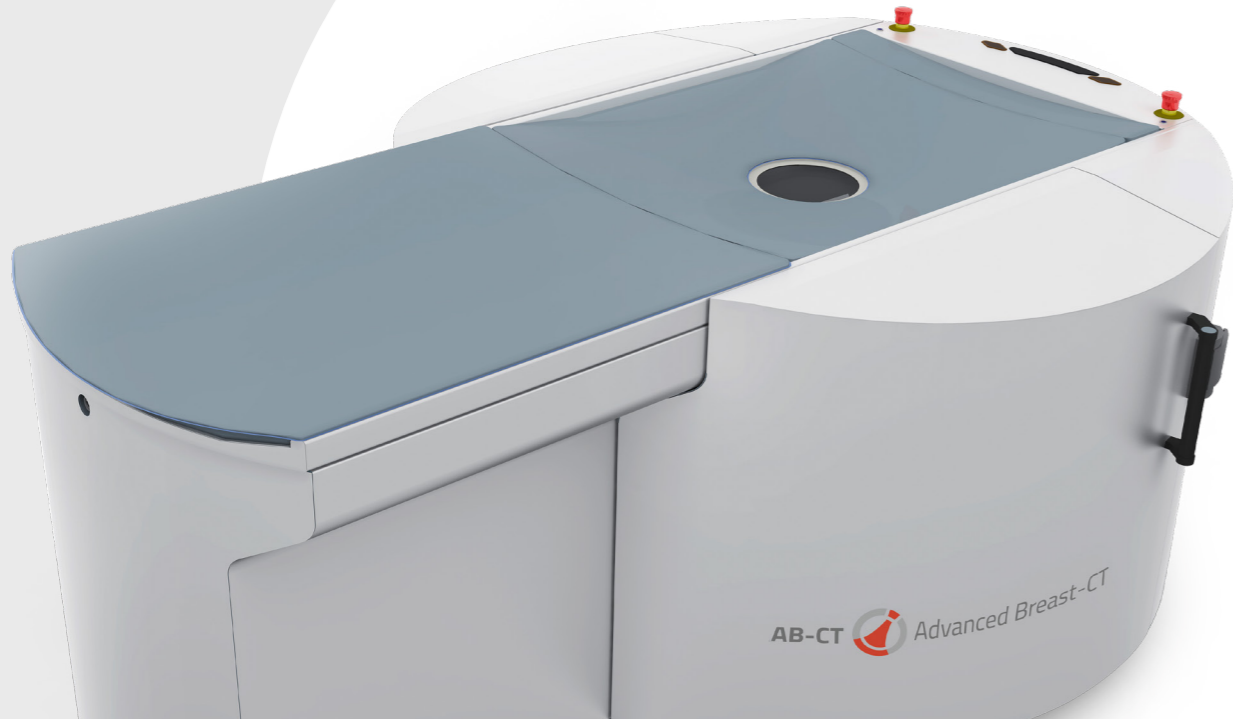
EVX-MAF
ECR10385



AB-CT  Advanced Breast-CT

nu:view
A DISRUPTIVE TECHNOLOGY
IN THE ERA OF BREAST IMAGING

 MADE IN GERMANY



DISCOVER TRUE ISOTROPIC 3D RESOLUTION

nu:view is a dedicated breast CT scanner for diagnostic X-ray imaging with short scan times, excellent low-contrast resolution and high spatial resolution.

X-ray tube and X-ray detector were specifically designed for breast CT scanning and utilize state-of-the-art photon-counting technology. Beside the X-ray components also the image reconstruction software

is optimized for highest image quality and guarantees best dose usage.

Three-dimensional superimposition-free images are generated to allow detectability of calcifications and to provide excellent soft-tissue differentiation.

The system is designed for high patient comfort without breast compression.

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

nu:view

1

Full 3D images of the breast without superimposition

2

Good soft-tissue differentiation

3

Accurate tissue density assessment

4

Optimized for fast scanning with acquisition times of 7–12 seconds per scan

5

Low patient dose levels in the range of diagnostic mammograms

6

Improved patient comfort without breast compression

7

Full clinical integration (RIS & PACS)



X-RAY TUBE

- Focal spot size: 0.3 mm (IEC 60336)
- Tube voltage: 60 kV
- Tube current: 5–125 mA
- Power: 7.5 kW



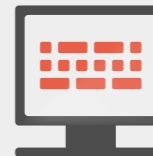
SCAN

- Spiral cone-beam CT scan
- Up to 2000 projections per 360°
- Acquisition times of 7–12 s per scan
- Low patient dose levels in the range of diagnostic mammograms



DETECTOR

- Type: Photon-counting detector (direct conversion)
- Sensor: CdTe, 0.75 mm thick
- Pixel size: (0.1 mm)²
- Detector area: about 280 × 50 mm²
- Frame rate: up to 1000 Hz

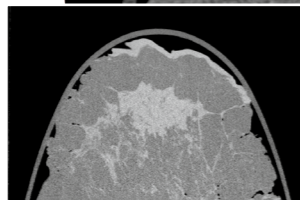


RECONSTRUCTION

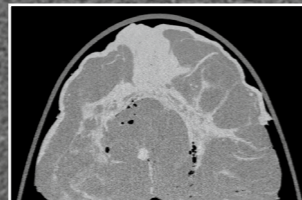
- Fully isotropic high spatial resolution
- Field of measurement: Ø 200 mm × 160 mm
- Voxel size: (0.15 mm)³
- Filtered back-projection reconstruction algorithm

THE FULLY 3D IMAGING CAPABILITY

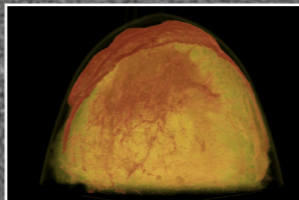
Mastectomy placed in a breast cup
without compression and scanned
with **nu:view** breast CT scanner.



Transversal View



Sagittal View



Volume Rendering

Images: Courtesy of Prof. Willi Kalender, PhD

Coronal View

WE ARE AB-CT

A vibrant community of genius SW engineers, design engineers and medical physicists form a team that did not just develop another CT device, but a disruptive technology – Made in Germany.

Our goal is to enable radiologists all over the world to diagnose breast cancer early as this is the cure.



LUDGER HAJDUK

**HEAD OF CUSTOMER
RELATIONSHIP MANAGEMENT**

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