

Koning

A better way of
BREAST IMAGING

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**Changing the
World's Perspective
on Breast Imaging**

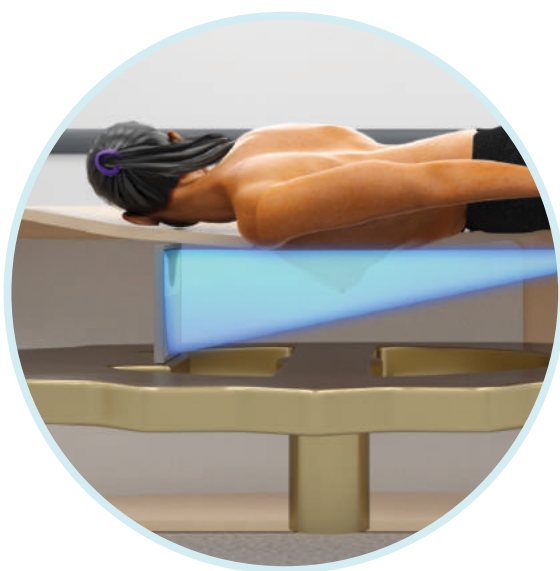
www.koninghealth.com

Koning

Identifying a suspicious breast lesion could be a lifesaving event - 5-year survival rates for breast cancer detection at the earliest stages are over 99%. Yet, the current "gold standard" of breast imaging, mammography, falls short in detecting early cancers due to structural overlap and poor contrast resolution. Additionally, it is a painful procedure, requiring patients to compress their breast with 10-20 kg of force.

Koning's revolutionary 3D breast CT will change the world's perspective on breast imaging.

Koning has been developing cone-beam CT technology for over two decades. As the winner of multiple awards including the **2016 Frost and Sullivan New Innovation Award in Breast Imaging**, and as holder of over 80 patents globally, Koning has vigorously developed the technology to bring a better breast cancer detection solution to women around the world.



Key Included Features:

- Full 3D isotropic imaging
- Superior patient comfort with no compression
- Images generated are DICOM compliant and directly plug into most RIS/PACS systems for remote viewing
- Biopsy ready – optional biopsy kit allows for biopsies directly on the table
- User friendly operator's console
- Equivalent radiation dose to mammography

The KBCT

True 3D With No Compression

Koning's 3D breast CT device (KBCT) is the first, commercially available, dedicated CT scanner designed specifically to image the entire breast, from the chest wall to the nipple. Traditional mammography is two-dimensional (2D), leading to structure and tissue overlap which can obscure a breast lesion. KBCT acquires true 3D isotropic images, alleviating structure and tissue overlap, and allowing for detection of tumors as small as 2 mm.

KBCT is able to acquire a full 3D image in just 10 seconds with **no compression**. Its unique exam table and prone positioning of the patient offer an unsurpassed patient experience for what has been a dreadful procedure for women around the world. At the same time, its self-shielding design and dedicated operator's console eliminate the need for a separate control room.

Access to the patient is available from wide interlocking safety covers on both sides, and the table can be elevated to up to 1.5 meters, making it possible to perform biopsies with the optional biopsy kit – eliminating the need for a separate stereotactic biopsy table. Full 3D images are also valuable to breast surgeons, who can plan surgeries based on 3D anatomy.



Hospital Friendly For Any Budget

Koning is committed to bringing this life saving technology to women everywhere and has designed a number of features to help hospitals bring KBCT into their workflow, enhancing the standard of care provided to patients.

- Size, dimensions and self-shielding allows KBCT to fit into standard stereotactic rooms – eliminating need for costly construction
- Technician training provided with each install
- Access to our medical advisory board around the world
- Service and parts warranties offered for the life of the product
- A variety of financing terms available –from lease buy-back to click-per-scan revenue sharing

Poor result, especially with small dense breasts



MAMMOGRAMS

Easily captures superior images



Same breast with KBCT

KBCT

IMPROVING BREAST CANCER DETECTION THROUGH INNOVATIVE TECHNOLOGY



Koning Breast CT System Specifications

Electrical Requirements

Input Voltage/Current	Standard: 480 V 3-phase @ 60 A or 208 V 3-phase @ 120A plus Ground
Power Rating	Maximum voltage = 49 kVp, current = 200 mA, power output = 9.8kW

Heating, Ventilation and Air-conditioning (HVAC) Requirements

Temperature	20° C – 24° C
Humidity	30% - 60% rH (non-condensing)

Radiation Dose Parameters

Air Kerma	25 mGy $\pm$ 20%
Half Value Layer	>0.49 mm Al at 49 kVp (FDA specification) 1.5 mm Al ($\pm$ 10 %) at 49 kVp (typical)

Scan/Reconstruction Parameters

Scan Time	10 seconds; 300 projections / scan
Voxel Size	Standard reconstruction: (0.273 mm) ³ High Res reconstruction: (0.190 and 0.155 mm) ³

Mechanical Parameters

Patient Table Load	200 kg (maximum)
Patient Table Height	1.0 m $\pm$ 10% (minimum position) to 1.55 m $\pm$ 10% (maximum position)
Room size	5.5 m x 6.0 m (minimum recommended size)

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020 8146 6839 | +44 75 2990 2750

info@euronoxmedical.com

www.euronoxmedical.com

35 Berkeley Square, Mayfair, London, W1J 5BF