



GE HealthCare

# Innovating 3D Ultrasound. Small cancer. Big impact.

## Invenia™ ABUS Premium

Automated Breast  
Ultrasound

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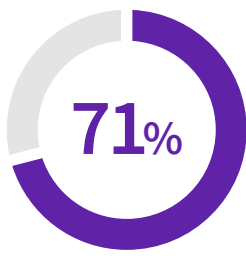


# The dense breast challenge and our innovative AI-driven 3D ultrasound solution

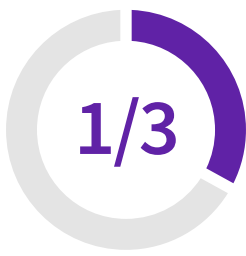
Various studies conducted in the U.S. and Europe show 40% of women have dense breasts,<sup>1</sup> one of the most common risk factors for developing breast cancer.<sup>2</sup> In dense breasts, cancers may be masked on mammography – potentially delaying diagnosis in these women.<sup>3,4</sup> Both dense breast tissue and cancer appear white on a mammogram. This creates a dangerous camouflage effect and a dilemma for radiologists. The goal is early detection of breast cancer to help avoid missing cancer diagnoses and increase clinical confidence.



**40%** of women<sup>1</sup> and **70%** of Asian of women<sup>5</sup> have dense breast tissue.



71% of cancers occur in dense breasts.<sup>6</sup>



Mammography may miss 1/3 of cancers in dense breasts.<sup>3</sup>



## Optimal outcomes. Peace of mind.

Invenia ABUS Premium provides the most innovative, patient-friendly, efficient, and AI-driven 3D ultrasound designed to deliver optimal outcomes.



## The power of early detection with supplemental screening

Supplemental screening with Invenia ABUS transforms breast care from reactive to proactive.

Multiple studies have demonstrated the clinical power of ABUS in dense breasts to find mammography occult, invasive cancers at an early stage – small and node-negative<sup>7,8</sup> with the potential to reduce unnecessary biopsies.<sup>9</sup>

### Important prognostic implications for your patients

When breast cancers are found at Stage 1 and 2,

**70%** of patients may avoid chemotherapy.<sup>10</sup>

GE HealthCare offers the first FDA-approved ultrasound supplemental screening that is specifically designed for detecting cancer in dense breast tissue.





Invenia ABUS is an important pillar in the Breast Care Pathway and makes a difference from screening to diagnostic, planning and monitoring.

## Comprehensive Breast Care Pathway

Screening



Finding clinically relevant cancers as early as possible

The special coronal plane with an exact lesion localization and double reading capabilities makes ABUS an excellent screening tool to detect small cancers.<sup>7,8</sup>

Diagnostic



Managing complex cancer diseases

Supporting early diagnosis with virtual rescans and multiplanar reading within the entire breast volume helps in complex multifocal and multicentric cancer disease management.<sup>11</sup>

Planning



Making the invisible visible

The coronal plane provides the entire tumor extension for a precise and effective therapy planning by offering a surgical 3D view to the entire breast.<sup>11</sup>

Monitoring



Providing extraordinary patient care

The reproducible and standardized ABUS volumes can be easily compared to priors helping to monitor systematic therapy response and benign lesions in young women.<sup>12</sup>

## Built for outstanding patient care

The non-invasive Invenia ABUS is designed for extraordinary patient care

Deliver optimal outcomes for your patients based on ABUS’s advanced technology without any iodinated contrast agent or ionizing radiation. The gently shaped new transducer fits perfectly to a woman’s breast anatomy and the selectable compression levels provide personalized comfort during the exam.

Enjoy a new breast ultrasound experience to advance quality time with your patients by separating reading from the acquisition.

A patient experience study<sup>13</sup> showed that **100%** of women would recommend an ABUS exam to their best friend.



### Diana’s story

“I’m convinced that **ABUS gives my doctor more concrete evidence** than other technologies<sup>13</sup> and provides a one-of-a-kind image. It’s completely **painless, comfortable, fast, and convenient**. Unlike handheld ultrasound, which is very time intensive, ABUS is **faster** – the appointment only takes 15 minutes.”

### Jill’s story

“I knew I had dense breast tissue, and I knew that reading dense tissue is a challenge. Requesting ABUS makes the whole journey easier by **finding cancer earlier**, when **less treatment** is likely to be needed, and the imaging is **totally pain-free and comfortable** — a **great golden ticket!**”<sup>14</sup>


### Guelsen’s story

“I felt **peace of mind during the ABUS exam** because I was told ABUS doesn’t use any radiation. Thanks to the recommended ABUS screening and the attention of my physician, **my cancer was detected early** on both breasts, and I was able to receive treatment as early as possible.”<sup>15</sup>



# AI-driven, faster and reproducible scanning

The Invenia ABUS Premium is designed for high patient throughput and extraordinary image quality to provide a great level of confidence. With its innovative design, it's easy to use, reproducible, user-independent, standardized and allows reading anywhere.



### Enabled by Verisound™ AI

- The **Scan Quality Assessment** provides an immediate qualitative evaluation during the exam for proper breast coverage and positioning
- **Auto Nipple Detection** automatically offers the positioning of the nipple marker to enable consistency within the breast volumes to speed up the overall exam time

## The latest Reverse Curve™ transducer

The gentle shape of the 15.3 cm **Reverse Curve transducer** follows the breast's natural contour for outstanding patient comfort and full contact, ensuring comprehensive coverage and extraordinary image quality, which leads to a high degree of diagnostic confidence for reading ABUS exams.



\*Compared to Invenia ABUS 2.0.

### An image quality evolution: cSound™ Imageformer and Fast Scan

With the touch of a button, the predefined scanning protocols will be enabled with an automated selection of all appropriate ultrasound parameters.

- The **cSound Imageformer** advancement transforms processing from hardware- to software-based, producing exquisite image quality by automatically creating focus at every pixel and resulting in consistent, high-resolution image quality and reproducibility from user to user
- **Fast Scan** increases scan speed by 40%\* to enable high operational efficiency and better patient throughput


Fast Scan increases scan speed by **40%\***



# Simple and streamlined reading

The Invenia ABUS Viewer is designed for fast, efficient workflow for reading and reporting, allowing physicians to quickly review, interpret and archive patient exams. Based on Windows® and powerful processing, the Invenia ABUS Viewer incorporates intuitive user interface icons and multiple viewing and hanging protocols, which can be customized by the user.









### AI Assistant to improve clinical confidence


The Invenia ABUS Viewer with AI Assistant\*\* integrates FDA-approved AI tools to enhance ABUS 3D dataset reviews, seamlessly incorporating intelligent algorithms to assist in characterizing breast lesions, providing a second opinion for added confidence.

### Key productivity features to enhance workflow

-  **Programmable hot keys** enable users to define commonly used functions to help reduce keystrokes.
-  **Three-view layout option** displays a synchronized view of multiple acquisitions on a single screen, allowing physicians to efficiently evaluate and cross reference areas of interest from multiple angles and increase diagnostic confidence.
-  **Auto Prior Compare** allows physicians to easily compare a region of interest to prior exams.



Read entire ABUS exam in less than **3 minutes<sup>16</sup>**



**✓ 55%**  
Decrease benign biopsies by up to 55%<sup>17</sup>

\*\*AI Assistant enables seamless integration of GE HealthCare and third-party AI tools powered by Koios DS™ Breast.



# Positive health economics

Impactful economic benefits by implementing ABUS



GE HealthCare

**-1.05%**

total economic impact<sup>18</sup>

**€54 million**

savings to Italian NHS<sup>18</sup>

**44%**

saving of radiologist  
reading time<sup>19</sup>

**18%**

reduction in  
operational costs<sup>19</sup>

**61%**

increased breast ultrasound  
revenue by implementing ABUS<sup>20</sup>

Clinical trailblazer



Operational efficiency



Financial outcomes



## Beyond technology

Program integration, marketing, and education

### Grow your ABUS program

GE HealthCare takes a holistic approach to helping integrate Invenia ABUS into your facility. Our dedicated team is here to support you in implementing your ABUS program, finding your most effective and individual workflow to make it a success. Our marketing and digital tool kits focus on education and awareness for referring physicians, your community, and most importantly, your patients!

### Comprehensive education program

Gain quick, clinical confidence to read ABUS exams through the extensive and progressive Mastery Program for physicians. The FDA-approved curriculum is led by experienced and certified peer educators. The advanced technologists' training occurs on-site with our experienced team of clinical application specialists.

### ABUS Club & ABUS Club app

Users have access to an online community that offers clinicians educational resources, marketing tools and best practices from ABUS users, to help implement, launch and grow their program. The ABUS Club app has a user-friendly interface and can be speedily accessed anywhere.

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