



Invenia ABUS 2.0

Data Sheet

System description

The Invenia™ ABUS 2.0 (Automated Breast Ultrasound System) is designed for automated breast imaging. The Invenia ABUS 2.0 imaging architecture, built on the cSound™ Imageforming platform, was designed to utilize more software-based processing, relying less on hardware than the predecessor ABUS product.

Scanning features

The Invenia ABUS 2.0 incorporates an integrated ultrasound system and interactive touchscreen user interface with operator configurable workflow protocol ICONS.

Scanner assembly features:

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|---------------------------------|--|
| Simple, 4-button user interface | <ul style="list-style-type: none">• Increase compression• Decrease compression• Start scan (one-touch volume acquisition)• Abort scan |
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Compression Assist with 3 operator selectable levels of compression between 5 – 20 lbs

Integrated, extra-wide transducer

Transducer description: C15-6XW Reverse Curve™

Transducer frequency range: 6 – 15 MHz

Transducer aperture length: 15.3 cm

Transducer travel distance: 16.9 cm

Transducer, number of elements: 768

Element pitch: 0.20 mm

Out-of-plane aperture: 3.5 mm

Transducer bandwidth: 85%

Imaging depths: From 2.5 to 6.0 cm

Single-use stabilization membrane

Single volume acquisition in less than 60 seconds

Multi-row LED task lighting

Removable scanner assembly view window, for easier clean-up



Scanning Features (cont.)

Specifications	
Width	23 in (59 cm)
Length	26 in (66 cm)
Height (scan arm in lowest position)	65 in (165.1 cm)
Height (scan arm in highest position)	85 in (215.9 cm)
Footprint	4.2 sq ft (0.39 sq m)
Weight	227 lbs (103 kg)
Scan arm reach (max)	42 in (107 cm)
Mains voltage	100 – 240 VAC
Maximum current	10 amps
Mains frequency	50/60 Hz
Study transfer	Auto and manual
Display	17 inch high resolution LCD touchscreen on ergonomic arm
Cart	Mobile platform with 4-wheel steering and braking
Operating system	Windows® 10 Enterprise LTSC

Networking/storage/archiving:

User login authentication

DICOM® 3.0 compliant	<ul style="list-style-type: none"> • Worklist (DMWL) • Store (SCU)
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10/100/1000 Base-T ethernet

Exam storage capacity: Approximately 200 studies, with storage status indicator

One-to-many DICOM data transfer

System features:

System Architecture: cSound Imageforming

Multi-slice B-mode image acquisition with frame-by-frame 3D position registration

User customizable workflow protocols

Image processing algorithms	<ul style="list-style-type: none"> • Tissue Equalization Algorithm (TEA) • Speckle reduction • Nipple Shadow Compensation (NSC) • Breast Border Detection (BBD) • Chest wall detection
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Acquisition scout images	<ul style="list-style-type: none"> • Transverse plane (real-time) • Transverse plane for image review • Coronal plane for volume review and nipple placement
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User replaceable fan filter

Remote service diagnostics

Multi-language UI support*

Environmental requirements

Operating temperature	41°F to 95°F (5°C to 35°C)
Operating relative humidity	30% to 75% non-condensing
Operating altitude	0 to 3,000 m
Storage temperature	14°F to 140°F (-10°C to 60°C)
Storage humidity	10% to 90% non-condensing
Storage altitude	0 to 3,000 m

* Supported languages include: English, Spanish, French, German, Italian, Portuguese (Brazil and Portugal), Swedish, Danish, Dutch, Finnish, Norwegian, Japanese, Russian.

Imagination at work

Product may not be available in all countries and regions. Full product technical specification is available upon request. Contact a GE Healthcare Representative for more information. Please visit www.gehealthcare.com/promotional-locations.

Data subject to change.

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